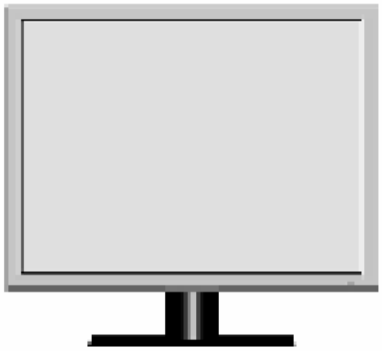
Website:http://biz.LGservice.com
E-mail:http://www.LGEservice.com/techsup.html

COLOR MONITOR
SERVICE MANUAL

CHASSIS NO. :

MODEL: L1718S FLATRON
(L1718S-SNQ/L1718S-BNQ.Axx*EP)
xx * means sales region and module type
(AxxKEP : INL 8ms, AxxBEP: CPT 8ms ,AxxJEP : INL 5ms, AxxAEP : CPT 5ms)

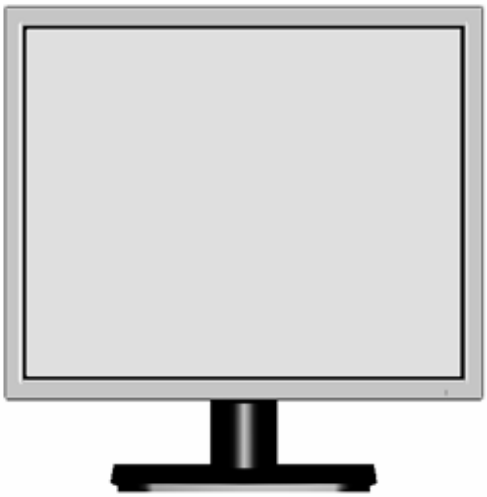
CAUTION
BEFORE SERVICING THE UNIT,
READ THE **SAFETY PRECAUTIONS** IN THIS MANUAL.



*To apply the **MSTAR Chip**.

LG

E-mail:http://\



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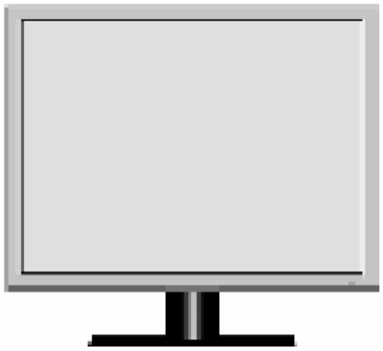

*To apply the **MSTAR Chip**.

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SPECIFICATIONS

1. LCD CHARACTERISTICS

Type : TFT Color LCD Module
Active Display Area : 17 inch
Pixel Pitch : 0.264 (H) x 0.264 (V)
Color Depth : 16.2M colors

Size : 358.5 (H) x 296.5 (V) x 17.5(D)
Electrical Interface : LVDS
Surface Treatment : Hard-coating(3H), Haze=25% Anti-Glare treatment
Operating Mode : Normally White, Transmissive mode
Backlight Unit : Top/Bottom edge side 4-CCFL (Cold Cathode Fluorescent Lamp)

2. OPTICAL CHARACTERISTICS

2-1. Viewing Angle by Contrast Ratio ≥ 10

(a) For InnoLux MT170EN01 V.7(8ms),V9(5ms) panel Left 75°(85°)/Right75°(85°);Top 75°(85°) /Bottom60°(70°) at type CR≥10 (CR≥5)

(b) For CLAA170EA07QG(8ms) ,CLAA170EA07P(5ms) panel: Left 70°(85°)/Right70°(85°);Top 63°(85°)/Bottom67°(85°) at type CR≥10(CR≥5)

2-2. Luminance

(a) For InnoLux MT170EN01 V.7 & V.9 panel: 300cd/m^2 (Typ.) 250cd/m^2 (Min.) (6500k); 200 cd/m^2 (Min.)(9300k)

(b) For CLAA170EA07QG & 07P panel: 280cd/m^2 (Typ.) 250cd/m^2 (Min.) (6500k);200 cd/m^2 (Min.)(9300k)

2-3. Contrast Ratio

(a) For InnoLux MT170EN01 V.7 & V.9 700:1 Typical

(b) For CLAA170EA07QG panel: 500:1 Typical
For CLAA170EA07P panel: 700:1 Typical

3. SIGNAL (Refer to the Timing Chart)

3-1. Sync Signal Type :
Separate Sync, Composite, SOG (Sync On Green)

3-2. Video Input Signal
1) Type : R, G, B Analog
2) Voltage Level : 0~0.71 V
a) Color 0, 0 : 0 Vp-p
b) Color 7, 0 : 0.467 Vp-p c)
Color 15, 0 : 0.714 Vp-p
3) Input Impedance : 75 Ω

3-3. Operating Frequency
Horizontal : 30 ~ 83kHz
Vertical : 56 ~ 775Hz

4. Max. Resolution

D-sub Analog : 1280 x 1024@75Hz

5. POWER SUPPLY

5-1. Power : AC 90~264V, 47.5~63Hz , <0.8A
5-2. Power Consumption

MODE	H/V SYNC	VIDEO	POWER CONSUMPTION	LED COLOR
OWER ON (NORAM	ON/OFF	ACTIVE	31W Typ. 35W Max.	GREEN
STAND-BY	OFF/ON	OFF	Less than 1W	AMBER
SUSPEND	ON/OFF	OFF	Less than 1W	AMBER
DPMS OFF	OFF/ON	OFF	Less than 1W	AMBER
POWER S/W Off		OFF	Less than 1W	OFF

6. ENVIRONMENT

6-1. Operating Temperature : 10°C~35°C (50°F~95°F) (Ambient)
6-2. Relative Humidity : 10%~80% (Non-condensing)
6-3. MTBF : 50,000 HRS with 90% Confidence
Lamp Life : 50,000 Hours(Min)

7. DIMENSIONS (with TILT/SWIVEL)

Width : 308.4 mm
Depth : 180.1 mm
Height : 380.7 mm

8. WEIGHT (with TILT/SWIVEL)

Net. Weight : 3.7 +/- 0.3 kg
Gross Weight : 4.8 +/-0.4 kg

PRECAUTION

WARNING FOR THE SAFETY-RELATED COMPONENT.

- There are some special components used in LCD monitor that are important for safety. **These parts are marked ⚠ on the schematic diagram and the replacement parts list.** It is essential that these critical parts should be replaced with the manufacturer's specified parts to prevent electric shock, fire or other hazard.
- Do not modify original design without obtaining written permission from manufacturer or you will void the original parts and labor guarantee.

TAKE CARE DURING HANDLING THE LCD MODULE WITH BACKLIGHT UNIT.

- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person's body are grounded through wrist band.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- The module not be exposed to the direct sunlight.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel become dirty, please wipe it off with a softmaterial. (Cleaning with a dirty or rough cloth may damage the panel.)

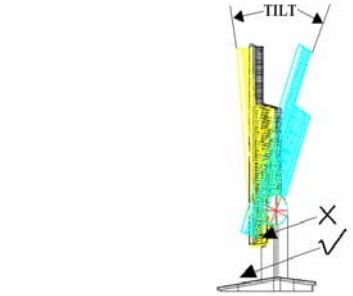
⚠ CAUTION

Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

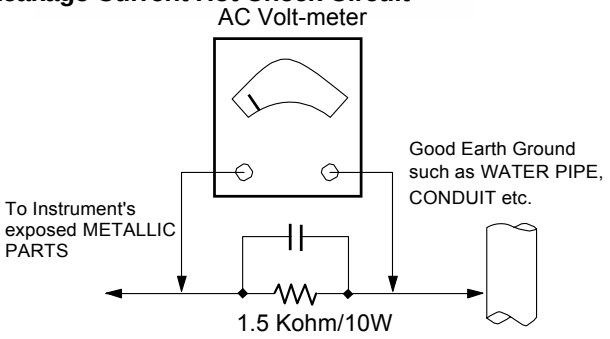
⚠ WARNING

BE CAREFUL ELECTRIC SHOCK !

- If you want to replace with the new backlight (CCFL) or inverter circuit, must disconnect the AC adapter because high voltage appears at inverter circuit about 650Vrms.
- Handle with care wires or connectors of the inverter circuit. If the wires are pressed cause short and may burn or take fire.
- Be careful while tilting and rotating the monitor to avoid pinching hand(s)



Leakage Current Hot Check Circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the **SAFETY PRECAUTIONS** on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
   d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
   Do not test high voltage by "drawing an arc".
3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this receiver or any of its assemblies.
5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
6. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
9. Use with this receiver only the test fixtures specified in this service manual.
   CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500F to 600F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle.
   Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature.
      (500F to 600F)
   b. Heat the component lead until the solder melts.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
      CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500F to 600F)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil. **CAUTION:** Work quickly to avoid overheating the circuit board printed foil.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive componenttemperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

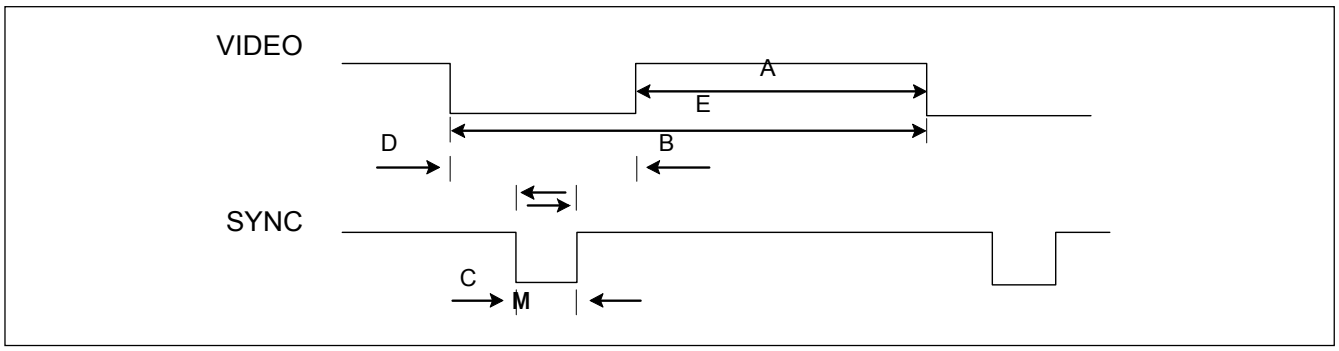
1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife.
   Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.
   Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

TIMING CHART



	distingishment	Polority	DOT CLOCK [MHz]	Frequency [kHz]/ [Hz]	Total period (E)	Display (A)	Front Porch (D)	Sync. (C)	Back Porch (B)	Resolution
1	H(Pixels)	+	25.175	31.469	800	640	16	96	48	640 x 350
	V(Lines)	-		70.08	449	350	37	2	60	
2	H(Pixels)	-	28.321	31.468	900	720	18	108	54	720 X 400
	V(Lines)	+		70.09	449	400	12	2	35	
3	H(Pixels)	-	25.175	31.469	800	640	16	96	48	640 x 480
	V(Lines)	-		59.94	525	480	10	2	33	
4	H(Pixels)	-	31.5	37.5	840	640	16	64	120	640 x 480
	V(Lines)	-		75	500	480	1	3	16	
5	H(Pixels)	+	40.0	37.879	1056	800	40	128	88	800 x 600
	V(Lines)	+		60.317	628	600	1	4	23	
6	H(Pixels)	+	49.5	46.875	1056	800	16	80	160	800 x 600
	V(Lines)	+		75.0	625	600	1	3	21	
7	H(Pixels)	+/-	57.283	49.725	1152	832	32	64	224	832 x 624
	V(Lines)	+/-		74.55	667	624	1	3	39	
8	H(Pixels)	-	65.0	48.363	1344	1024	24	136	160	1024 x 768
	V(Lines)	-		60.0	806	768	3	6	29	
9	H(Pixels)	-	78.75	60.123	1312	1024	16	96	176	1024 x 768
	V(Lines)	-		75.029	800	768	1	3	28	
10	H(Pixels)	+/-	100.0	68.681	1456	1152	32	128	144	1152 x 870
	V(Lines)	+/-		75.062	915	870	3	3	39	
11	H(Pixels)	+/-	92.978	61.805	1504	1152	18	134	200	1152 x 900
	V(Lines)	+/-		65.96	937	900	2	4	31	
12	H(Pixels)	+	108.0	63.981	1688	1280	48	112	248	1280 x 1024
	V(Lines)	+		60.02	1066	1024	1	3	38	
13	H(Pixels)	+	135.0	79.976	1688	1280	16	144	248	1280 x 1024
	V(Lines)	+		75.035	1066	1024	1	3	38	

DISASSEMBLY

#1

Put a soft cushion on the floor and lay the stand on its side so that the base is accessble.

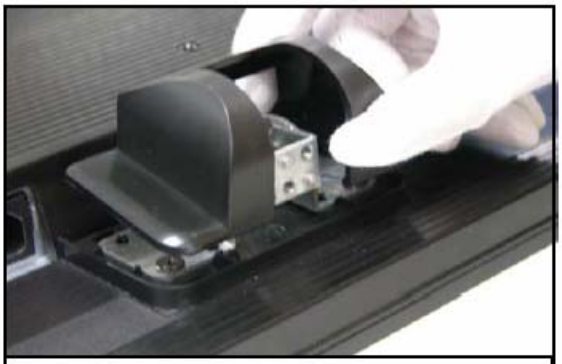
#2

Hold the set while folding the lacth and take out the stand base.

#3

3-1.Unsrew the 3 screws on the neck.
3-2.Put the neck upward and remove it.

#4

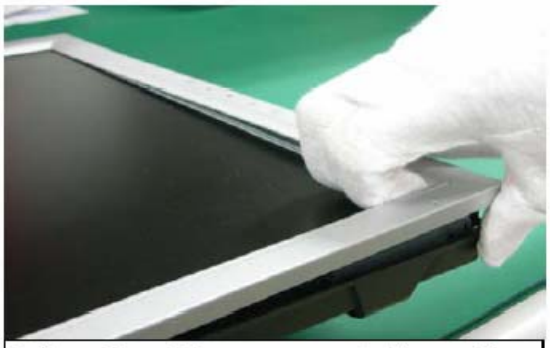


Put the hing-cover upward and remove it.

#5

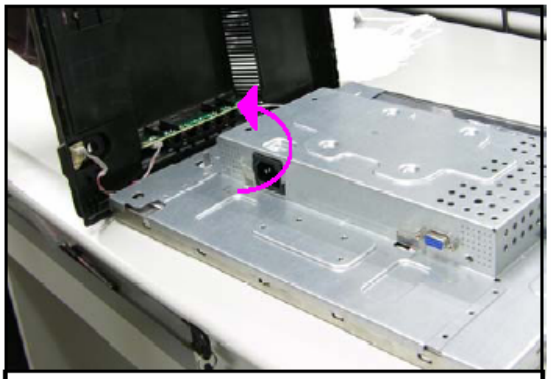
5-1.Unsrew the 4 srews on the hinge.
5-2.Put the hing upward and remove it.

#6



Pull up the cabinet corner and disasemble the front-bezel.

#7

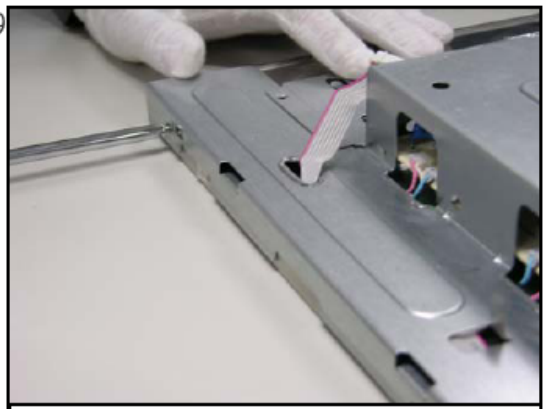


7-1.Lay the front on the side of a soft cushion.
7-2.Turn the back-cover and hold it as shown in the figure.

#8

Pull out the cable

#9

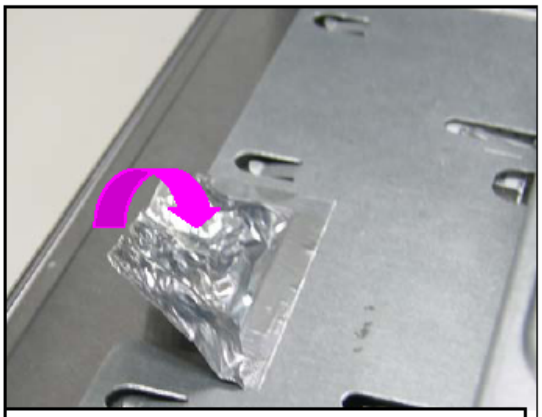


Unsrew the 4 srews around the chassis as .shown in the figure

#10

Pull out the lamp wire.

#11

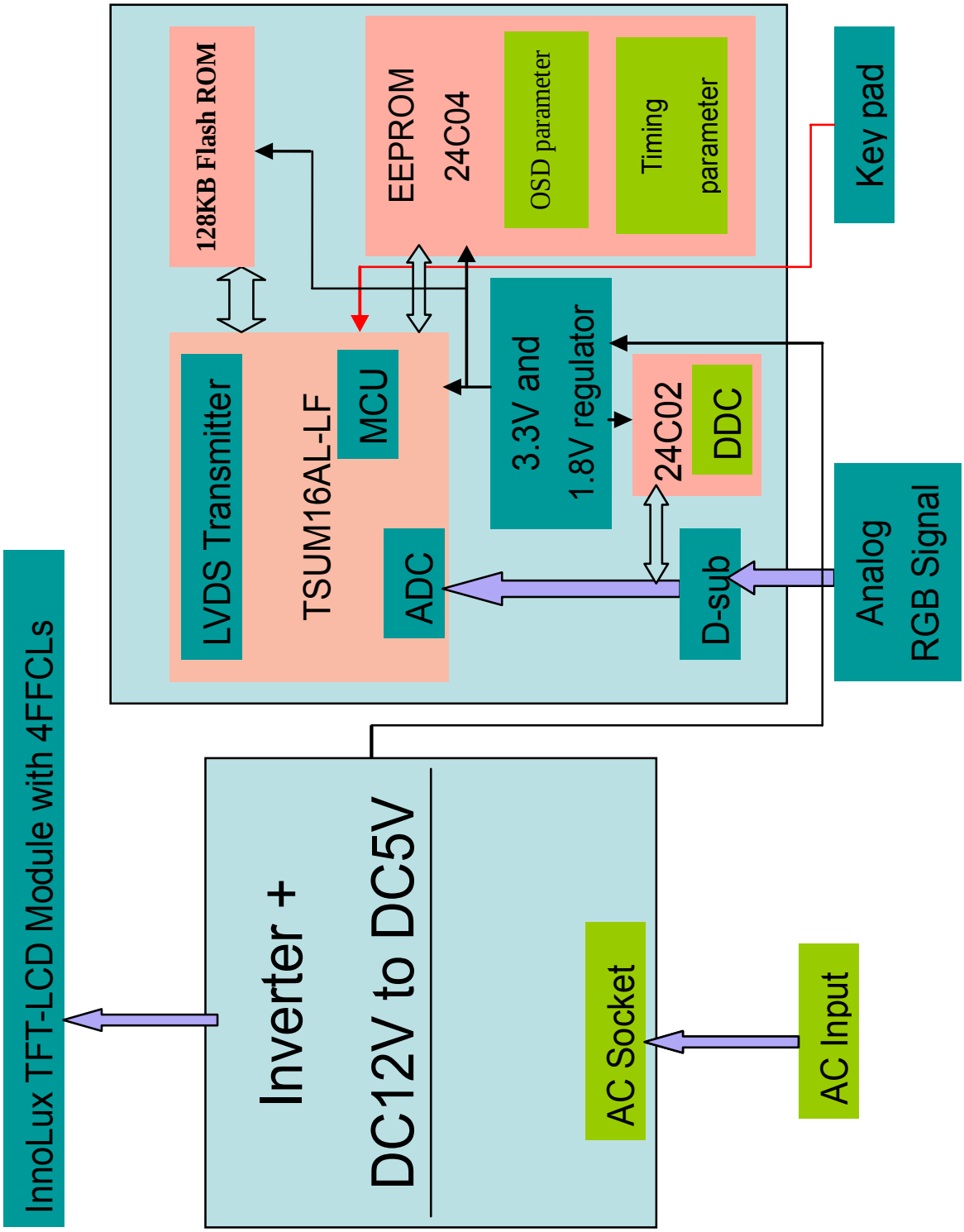


Unstick the foil with panel.

#12

Pull out the LVDS cable.

BLOCK DIAGRAM



DESCRIPTION OF BLOCK DIAGRAM

1. Video Controller Part.

This part amplifies the level of video signal for the digital conversion and converts from the analog video signal to the digital video signal using a pixel clock.
The pixel clock for each mode is generated by the PLL. The
range of the pixel clock is from 25MHz to 135MHz.
This part consists of the Scaler, ADC convertor and LVDS transmitter.
The Scaler gets the video signal converted analog to digital, interpolates input to 1280 X 1024 resolution signal and outputs 8-bit R, G, B signal to transmitter.

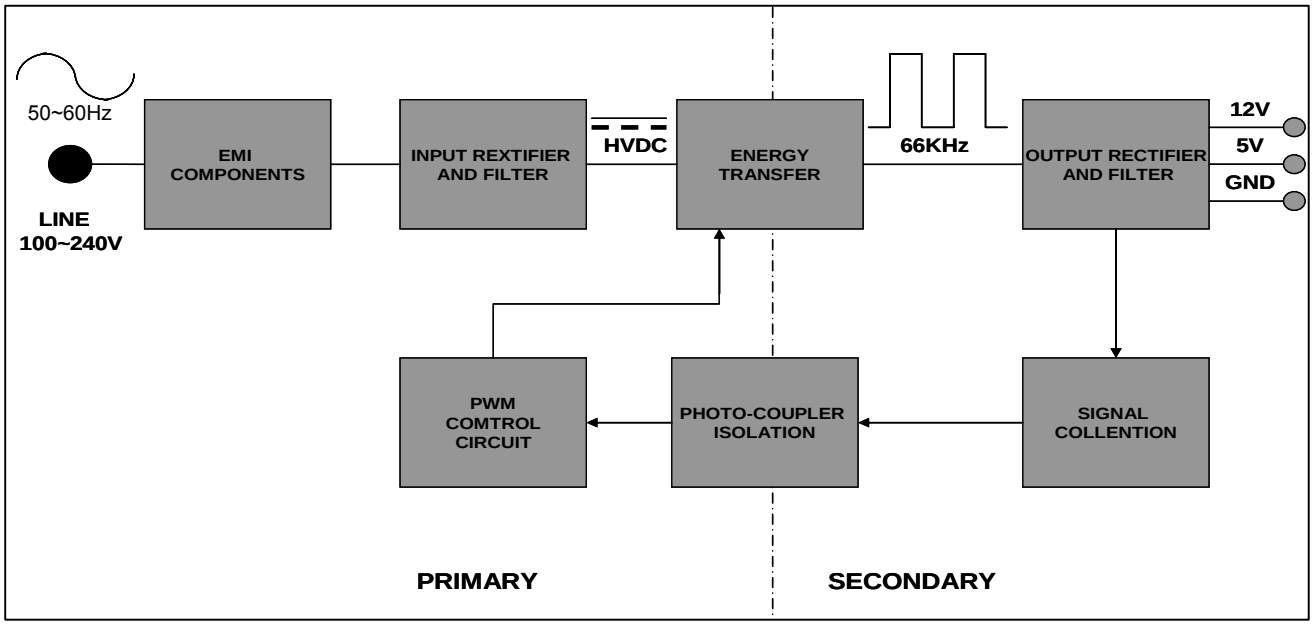
2. Power Part.

This part consists of the one 3.3V, and one 1.8V regulators to convert power which is provided 5V in Power board.
12V is provided for inverter, 12V is provided for LCD panel and 5V for micom.
Also, 5V is converted 3.3V and 1.8V by regulator. Converted power is provided for IC in the main board. The
inverter converts from DC12V to AC 700Vrms and operates back-light lamps of module.

3. MICOM Part.

This part is include video controller part. And this part consists of EEPROM IC which stores control data, and the Micom which imbedded in scaler IC.
The Micom distinguishes polarity and frequency of the H/V sync are supplied from signal cable. The
controlled data of each modes is stored in EEPROM.

LIPS Board Block Diagram



Operation description_LIPS

1. EMI components.
This part contains of EMI components to comply with global marketing EMI standards like FCC, VCCI CISPR, the circuit included a line-filter, across line capacitor and of course the primary protection fuse.

2. Input rectifier and filter.
This part function is for transfer the input AC voltage to a DC voltage through a bridge rectifier and a bulk capacitor.

3. Energy Transfer.
This part function is transfer the primary energy to secondary through a power transformer.

4. Output rectifier and filter.
This part function is to make a pulse width modulation control and to provide the driver signal to power switch, to adjust the duty cycle during different AC input and output loading condition to achive the dc output stablize, and also the over power protection is also monitor by this part.

5. Photo-Coupler isolation.
This part function is to feed back the dc output changing status through a photo transistor to primary controller to achieve the stabilized dc output voltage.

6. Signal collection.
This part function is to collect the any change from the dc output and feed back to the primary through photo transistor.

ADJUSTMENT

Windows EDID V1.0 User Manual

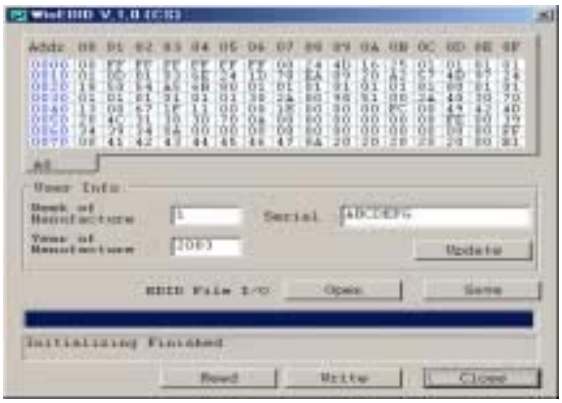
Operating System: MS Windows 98, 2000, XP
Port Setup: Windows 98 => Don't need setup
Windows 2000, XP => Need to Port Setup.
This program is available to LCD Monitor only.

1. Port Setup
   a) Copy "UserPort.sys" file to "c:\WINNT\system32\drivers" folder b) Run Userport.exe

   c) Remove all default number d) Add 300-3FF

   e) Click Start button. f) Click Exit button.

2. EDID Read & Write
   1) Run WinEDID.exe



   2) Edit Week of Manufacture, Year of Manufacture, Serial Number
      a) Input User Info Data
      b) Click "Update" button
      c) Click " Write" button

SERVICE OSD

1) Turn off the power switch at the front side of the display.

2) Wait for about 5 seconds and press MENU, POWER switch with 1 second interval.

3) The SVC OSD menu contains additional menus that the User OSD menu as described below.

a) Auto Color : W/B balance and Automatically sets the gain and offset value.
b) NVRAM INIT : EEPROM initialize.(24C04)
c) CLEAR ETI : To initialize using time.
d) AGING : Select Aging mode(on/off).
e) R/G/B-9300K : Allows you to set the R/G/B-9300K value manually.
f) R/G/B-6500K : Allows you to set the R/G/B-6500K value manually.
g) R/G/B-Offset : Allows you to set the R/G/B-Offset value manually.(Analog Only)
h) R/G/B-Gain : Allows you to set the R/G/B-Gain value manually.(Analog Only)
i) MODULE : Show Current module Type
j)RS232: Enable/Disable Debug Mode(on/off)

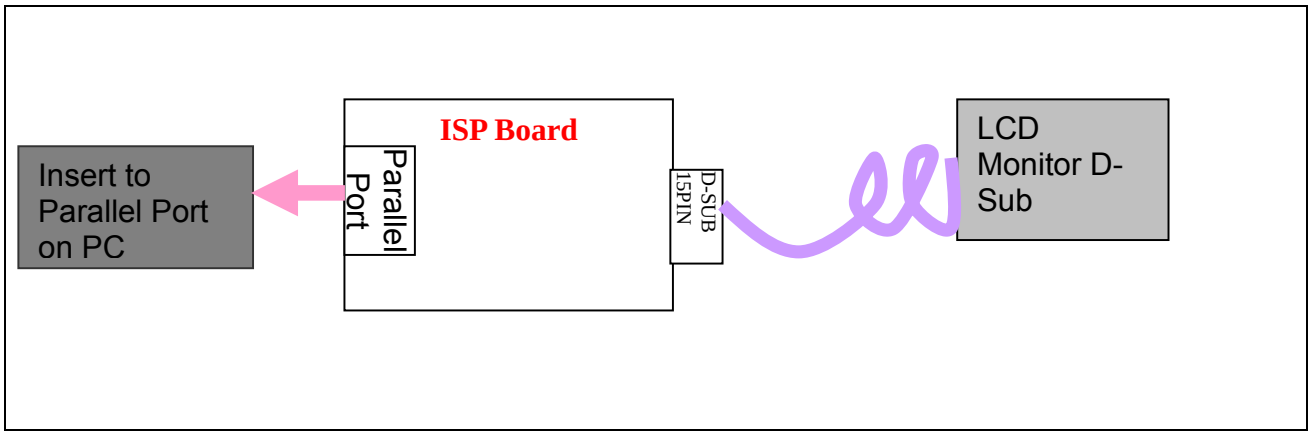
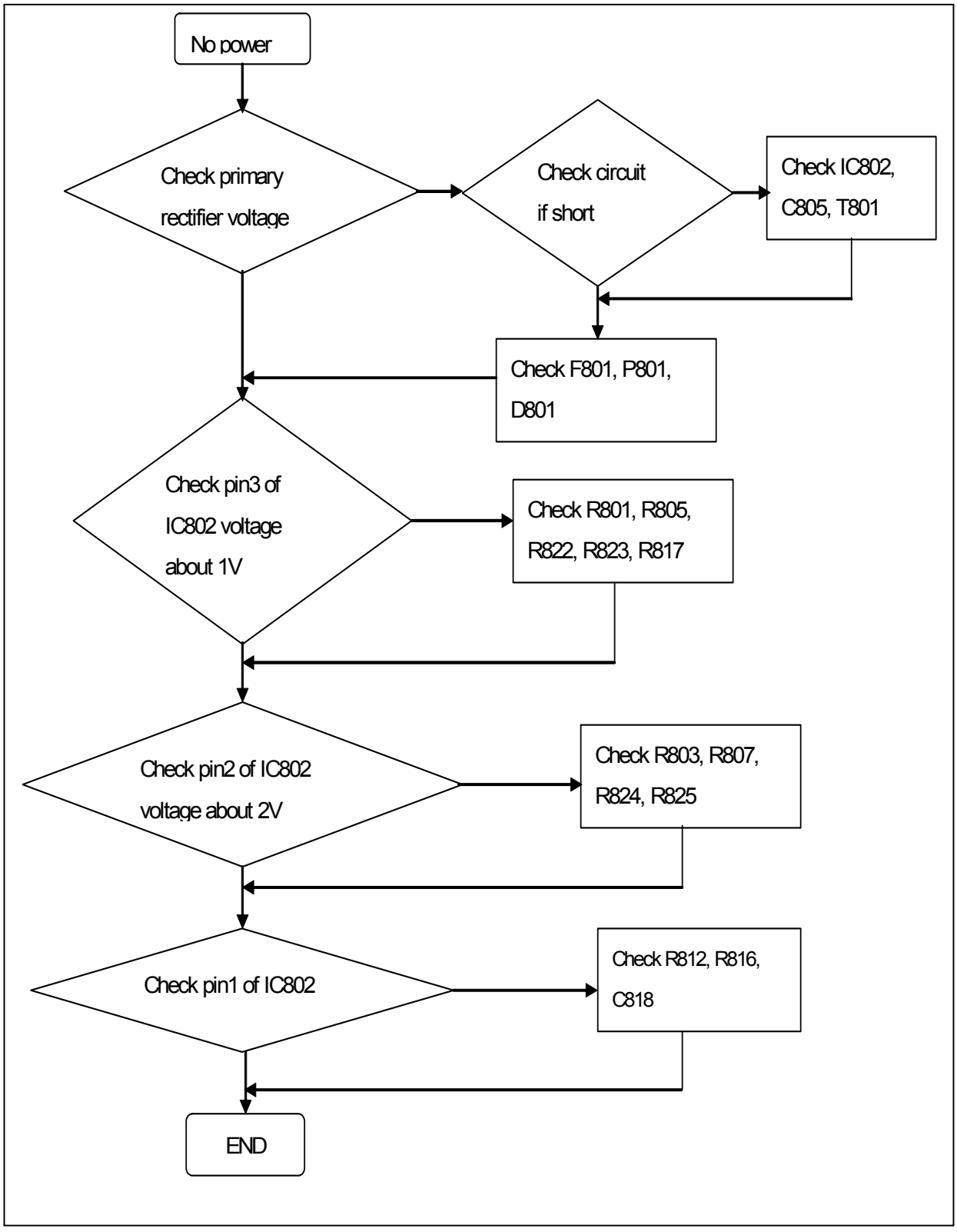


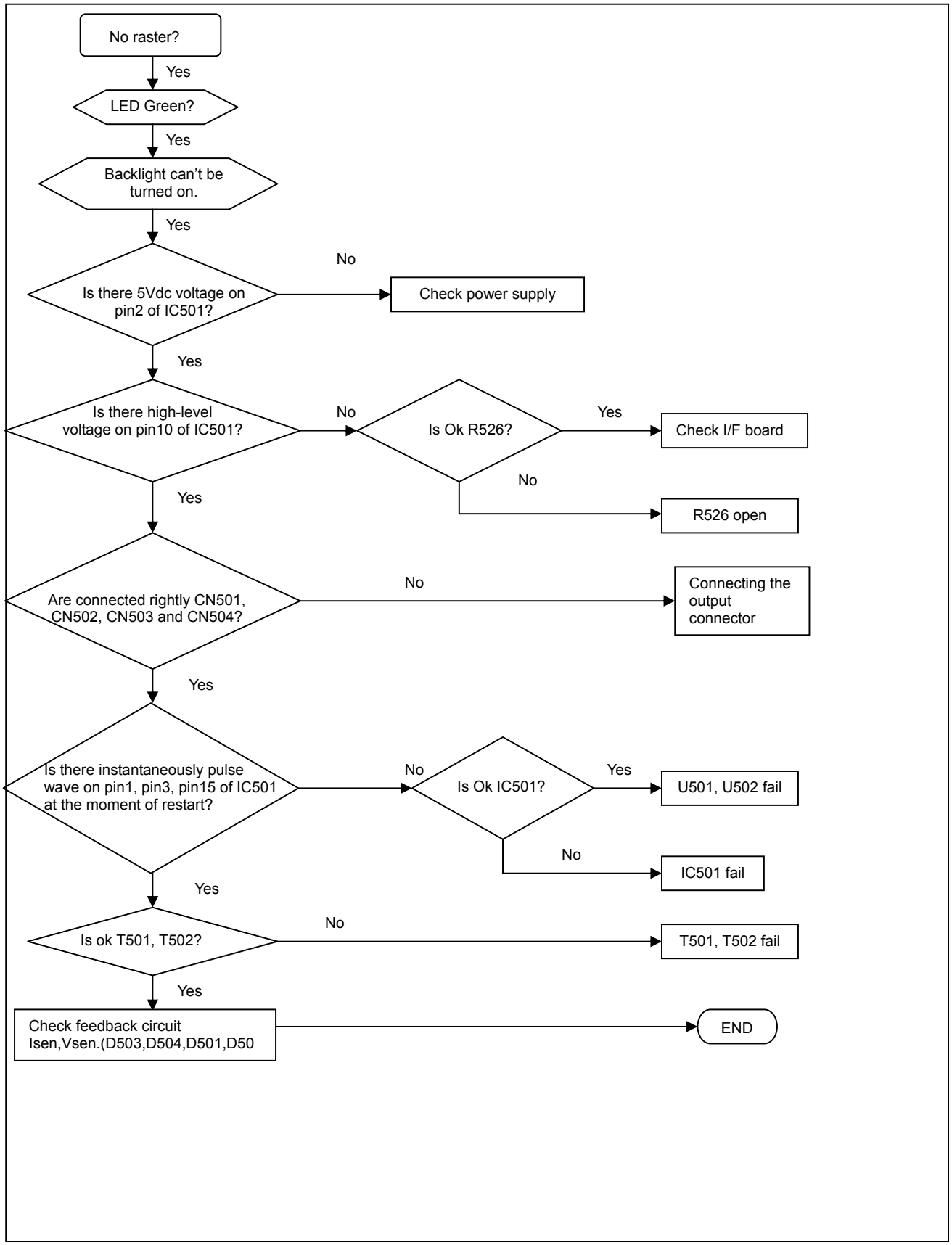
Figure 1.Cable Connection For ISP

TROUBLESHOOTING GUIDE

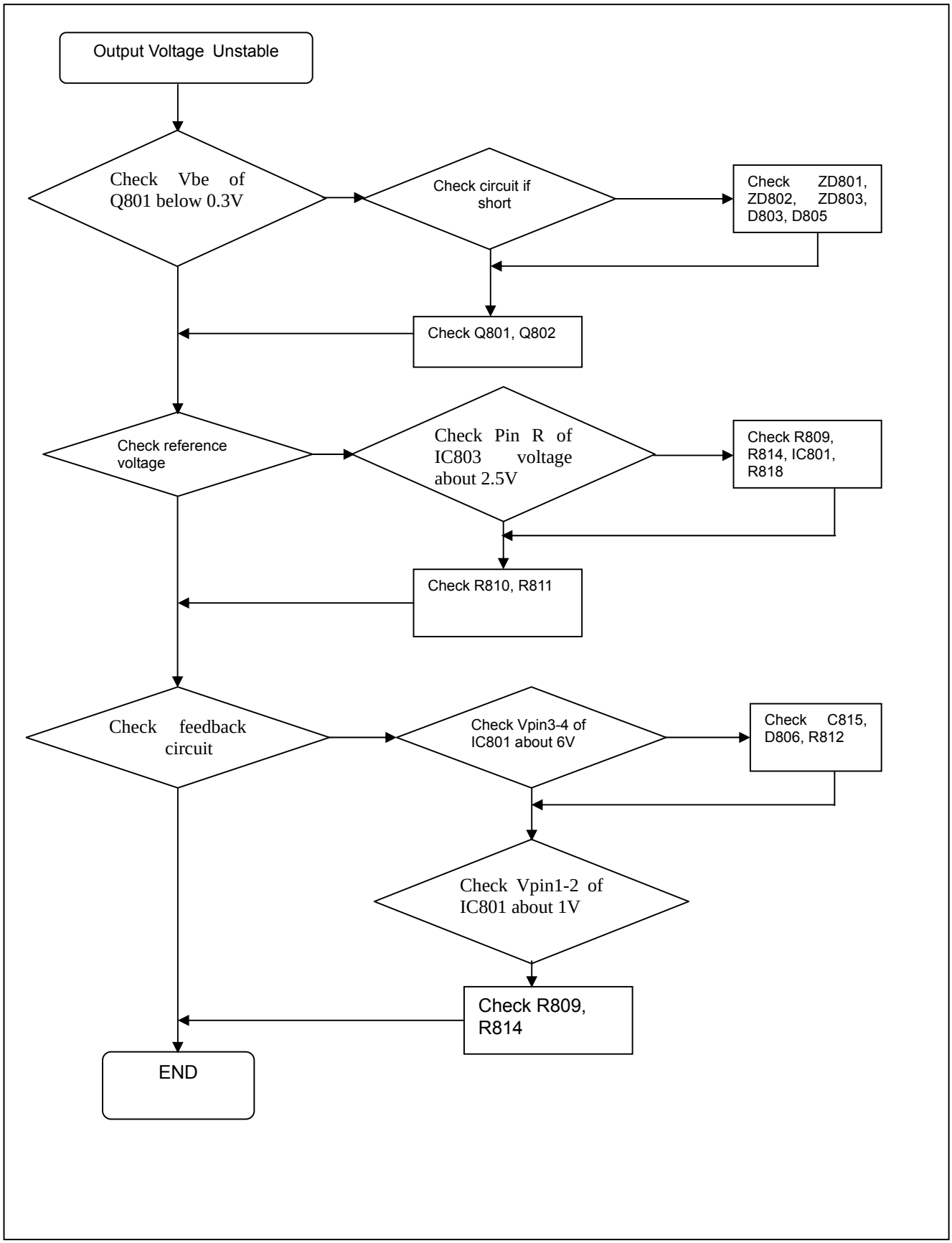
1. No Power & Power LED Off


No power
Check primary rectifier voltage
Check circuit if short
Check IC802, C805, T801
Check F801, P801, D801
Check pin3 of IC802 voltage about 1V
Check R801, R805, R822, R823, R817
Check pin2 of IC802 voltage about 2V
Check R803, R807, R824, R825
Check pin1 of IC802
Check R812, R816, C818
END

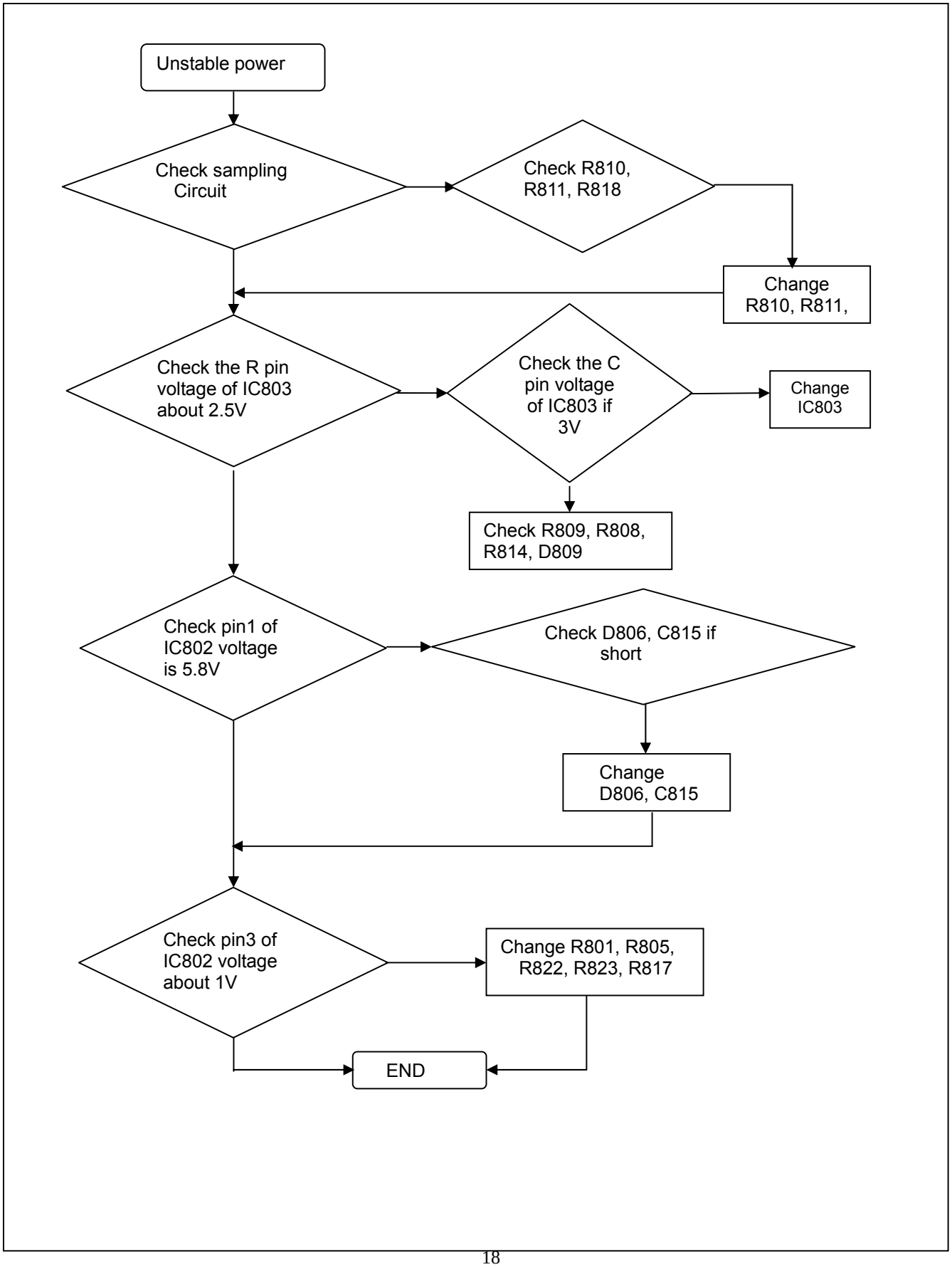
2. Backlight can't be turned on



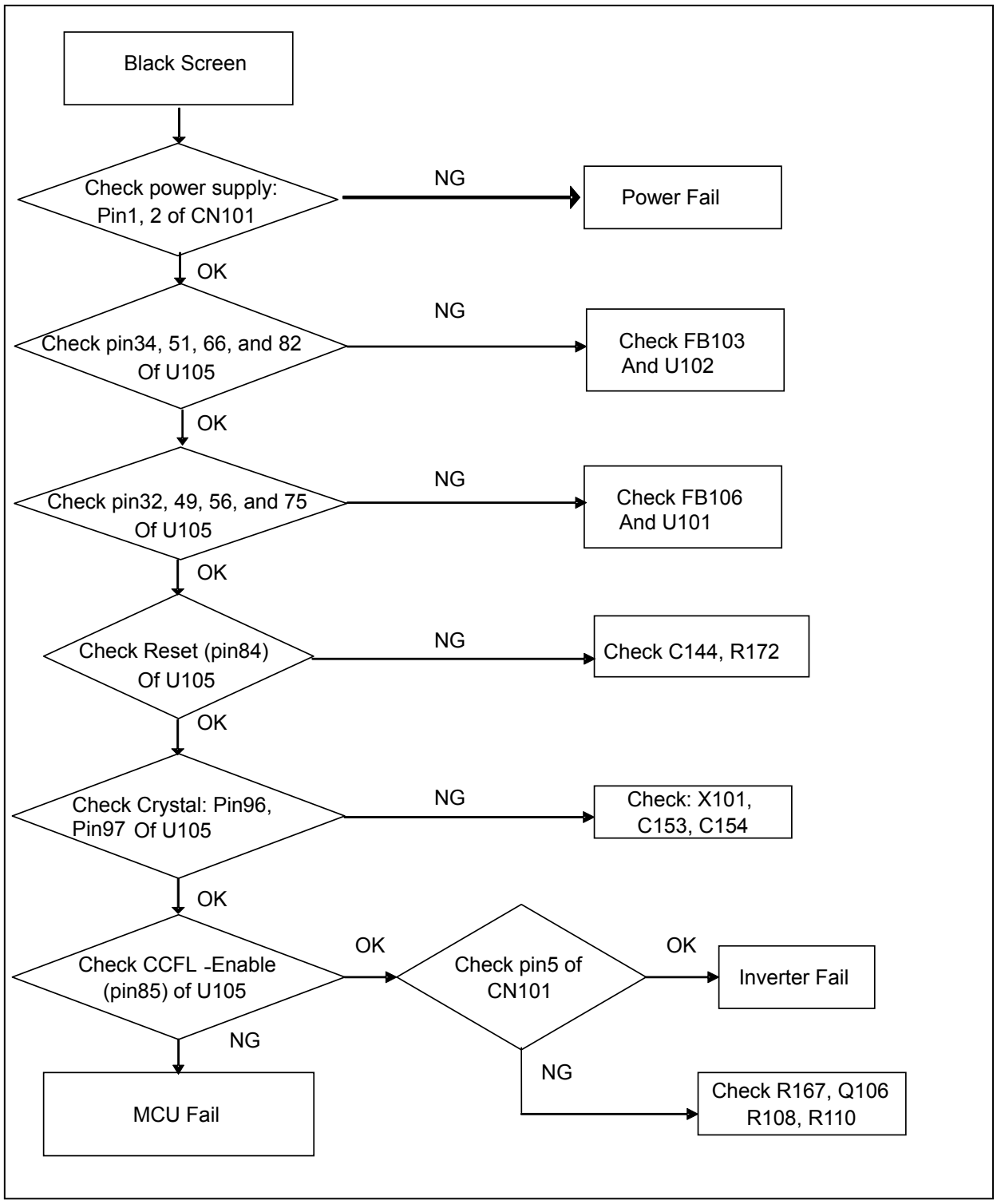
3. DC output voltage is unstable


Output Voltage Unstable
Check Vbe of Q801 below 0.3V
Check circuit if short
Check ZD801, ZD802, ZD803, D803, D805
Check Q801, Q802
Check reference voltage
Check Pin R of IC803 voltage about 2.5V
Check R809, R814, IC801, R818
Check R810, R811
Check feedback circuit
Check Vpin3-4 of IC801 about 6V
Check C815, D806, R812
Check Vpin1-2 of IC801 about 1V
Check R809, R814
END

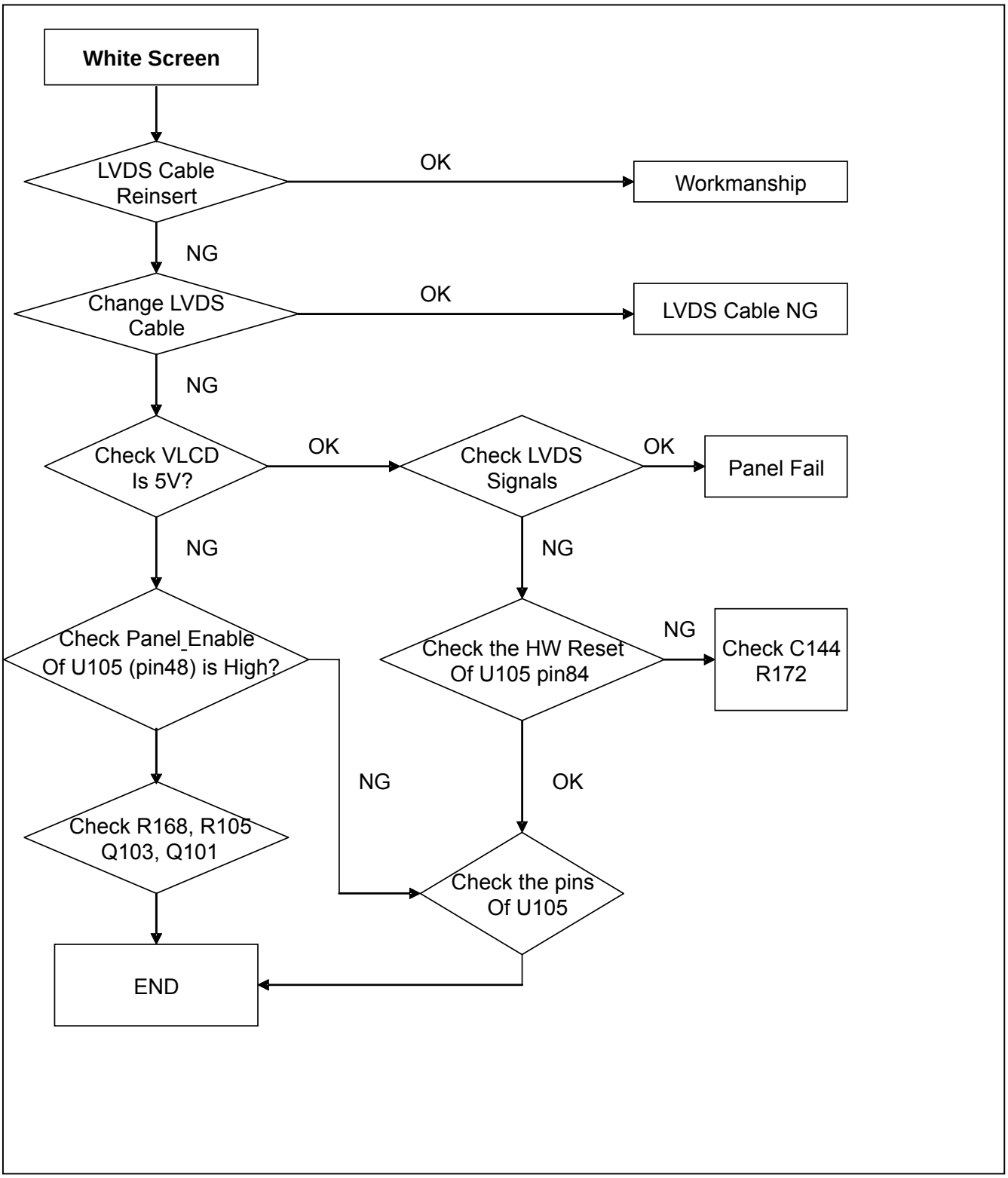
4.Output power is unstable


Unstable power
Check sampling Circuit
Check R810, R811, R818
Change R810, R811,
Check the R pin voltage of IC803 about 2.5V
Check the C pin voltage of IC803 if 3V
Change IC803
Check R809, R808, R814, D809
Check pin1 of IC802 voltage is 5.8V
Check D806, C815 if short
Change D806, C815
Check pin3 of IC802 voltage about 1V
Change R801, R805, R822, R823, R817
END

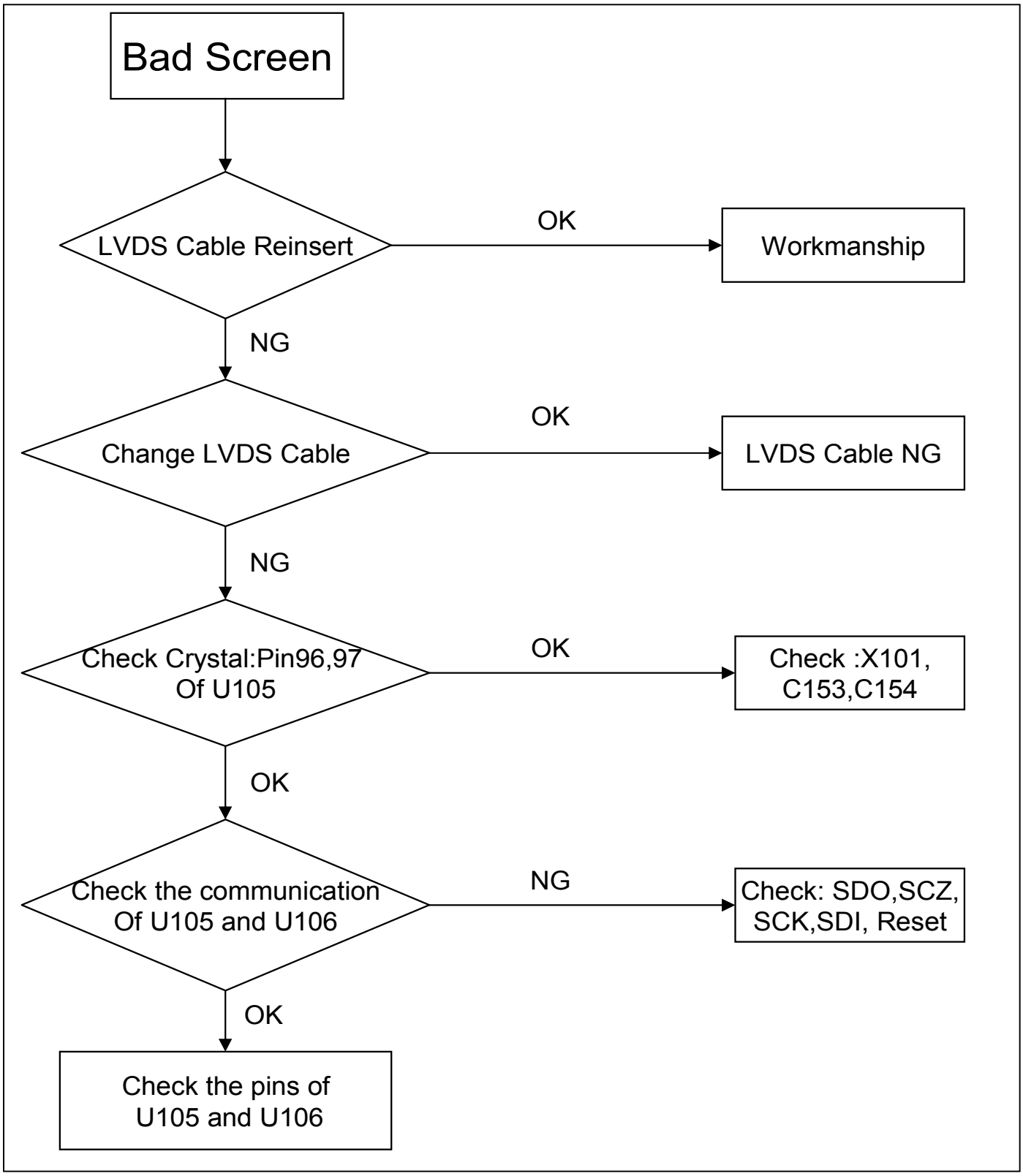
5.Black Screen and backlight turn on



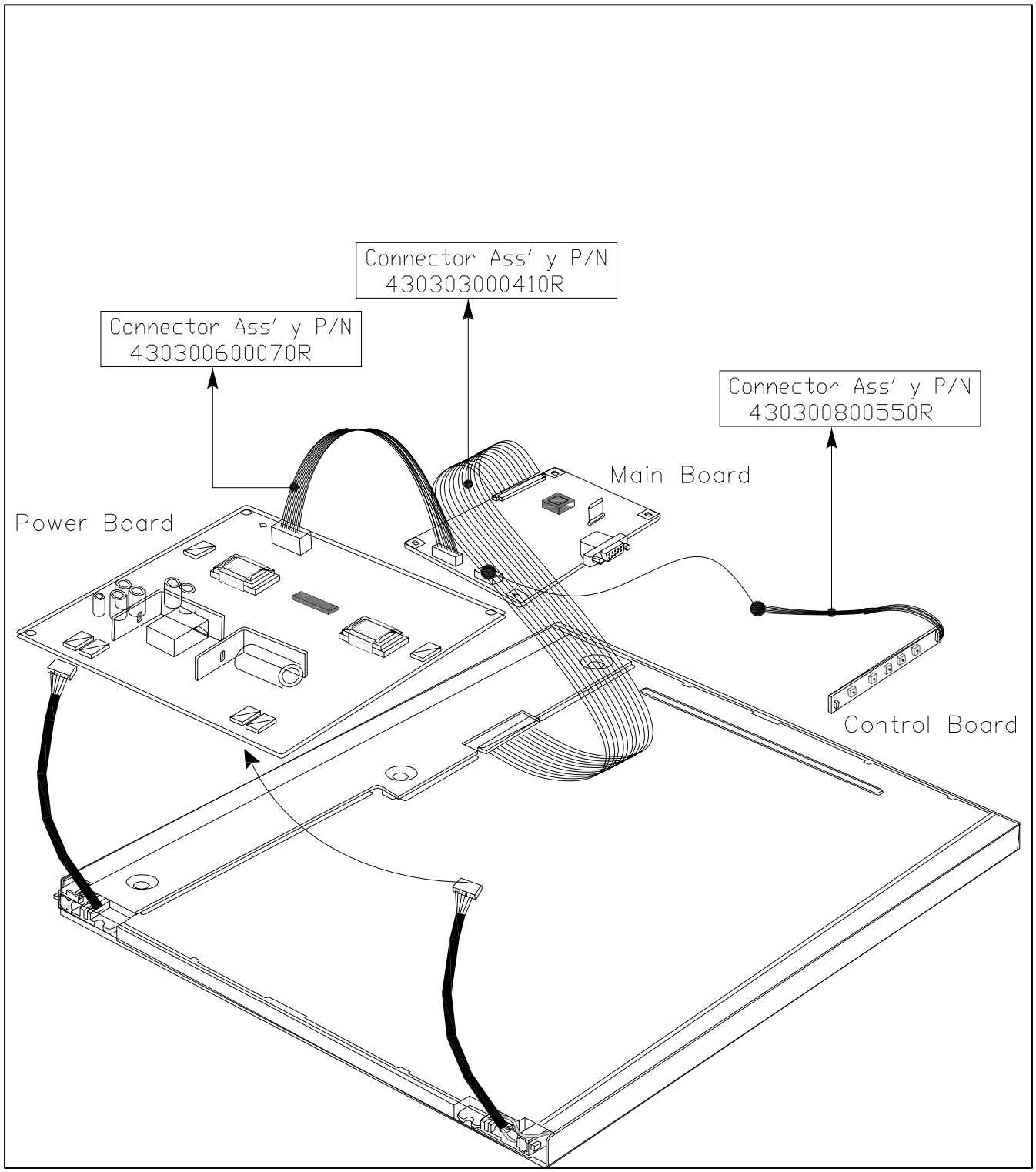
6.White Screen



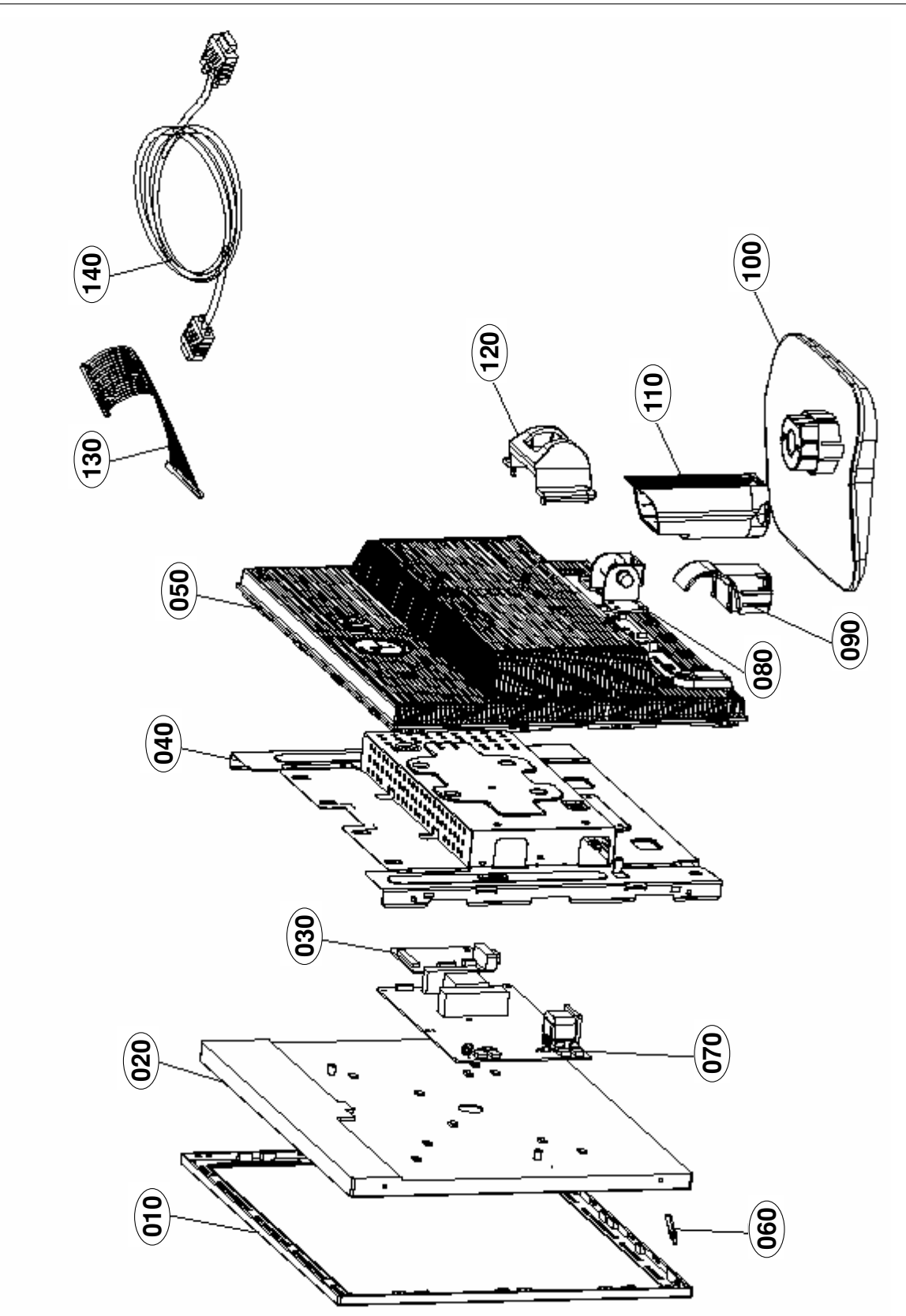
7. BAD SCREEN


Bad Screen
LVDS Cable Reinsert
OK
Workmanship
NG
Change LVDS Cable
OK
LVDS Cable NG
NG
Check Crystal:Pin96,97
Of U105
OK
Check :X101,
C153,C154
OK
Check the communication
Of U105 and U106
NG
Check: SDO,SCZ,
SCK,SDI, Reset
OK
Check the pins of
U105 and U106

WIRING DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Related to Models: L1718S-SNQ/BNQ.AxxJEP for 5ms InnoLux module and
L1718S-SNQ/BNQ.AxxAEP for 5ms CPT Module

Ref.No.	LGE Part No.	INL Part No.	Description
010	MCK30281901	501010205300R	BEZEL,FRONT(Black),LE1730
	MCK30284501	501010205310R	BEZEL,FRONT(Silver),LE1730
020	EBU38047801	631102072411R	LCD Panel 17" MT170EN01-V9(INNOLUX)
	EBU38048701	631102072384R	LCD Panel 17" CLAA170EA07P-040(CPT) RoHS
030	EBU38048201	790621300610R	PCBA,I/F BOARD(MT170EN01-V9),LE1730-6E0 ROHS
	EBU38049101	790621300010R	PCBA,IF BOARD,for CPT CLAA170EA07P-040 LE1730-0E0
040	AGU30210301	701000001300R	ASSY,CHASSIS, Metal frame(for InnoLux 5ms/8ms),LE1730
	AGU30211601	701000001310R	ASSY,CHASSIS, Metal frame (for CPT 5ms/8ms)
050	ACQ30210201	714050005200R	BACK COVER ,ASSEMBLY,LE1730
060	MFB30282101	501120103100R	LENS,LE1730
070	EBU30459001	790621400600R	PCBA,PWR&INV./B,LE1730-6E0
080	AGU30210601	502060002000R	HINGE,ASSEMBLY,LE1730
090	MCK30283101	501260202000R	STAND,NECK,LE1730
100	ACQ30211201	714020005200R	BASE,ASSEMBLY,LE1730
110	ACQ30211001	714010005200R	STAND, ASSEMBLY,LE1730
120	MCK30282901	501020207300R	COVER,HINGE,LE1730
130	EBU30458901	430303000410R	HRN LVDS,FFC 30P 281MM ROHS
140	EBU30459301	453010100210R	CABLE,D-SUB,15P MALE 1850MM BLACK/BLUE,R

Related to Models : L1718S-SNQ/BNQ.AxxKEP for 8ms Innolux module and
L1718S-SNQ/BNQ.AxxBEP for 8ms CPT module

Ref.No.	LGE Part No.	INL Part No.	Description
010	MCK30281901	501010205300R	BEZEL,FRONT(Black),LE1730
	MCK30284501	501010205310R	BEZEL,FRONT(Silver),LE1730
020	EBU30459201	631102071430R	LCD PANEL 17" MT170EN01-V7(INNOLUX)
	EBU30460301	631102072020R	LCD PANEL 17" CPT CLAA170EA07QG
030	EBU30458301	790621300600R	PCBA,IF BOARD for MT170EN01-V7(INL) , LE1730-6E0
	EBU30460201	790621300000R	PCBA,IF BOARD, for CPT CLAA170EA07QG LE1730-0E0
040	AGU30210301	701000001300R	ASSY,CHASSIS, Metal frame(for InnoLux 5ms/8ms),LE1730
	AGU30211601	701000001310R	ASSY,CHASSIS, Metal frame (for CPT 5ms/8ms)
050	ACQ30210201	714050005200R	BACK COVER ,ASSEMBLY,LE1730
060	MFB30282101	501120103100R	LENS,LE1730
070	EBU30459001	790621400600R	PCBA,PWR&INV./B,LE1730-6E0
080	AGU30210601	502060002000R	HINGE,ASSEMBLY,LE1730
090	MCK30283101	501260202000R	STAND,NECK,LE1730
100	ACQ30211201	714020005200R	BASE,ASSEMBLY,LE1730
110	ACQ30211001	714010005200R	STAND, ASSEMBLY,LE1730
120	MCK30282901	501020207300R	COVER,HINGE,LE1730
130	EBU30458901	430303000410R	HRN LVDS,FFC 30P 281MM ROHS
140	EBU30459301	453010100210R	CABLE,D-SUB,15P MALE 1850MM BLACK/BLUE,R

REPLACEMENT PARTS LIST

CAUTION: BEFORE REPLACING ANY OF THESE COMPONENTS,
READ CAREFULLY THE **SAFETY PRECAUTIONS** IN THIS MANUAL.
* NOTE : **S** SAFETY Mark ⚠
AL ALTERNATIVE PARTS

Related to Models: L1718S-SNQ/BNQ.AxxJEP for 5ms InnoLux module and
L1718S-SNQ/BNQ.AxxAEP for 5ms CPT Module

IF BOARD
1. FOR INL

ITEM	Location	P/N	Description
		790621300610R	PCBA,I/F BOARD(V9),LE1730-6E0 ROHS
10		790621320600R	PCBA,IF BOARD,OTHRS,LE1730-6E0
20		790621340600R	PCBA,IF BOARD,SMD, LE1730-6E0
30		629030006501R	PROGRAM(V9),LE1730-6E0 ROHS
50		511130001201R	SOLDER BAR,Sn96.5/Ag3.0/Cu0.5(SAC305 VAC
50		511130001200R	SOLDER BAR,Sn96.5/Ag3.0/Cu0.5/Ni0.06/Ge0
70		506440003800R	LABEL,BLANK,YELLOW,10x4mm
ITEM	Location	P/N	Description
		790621320600R	PCBA,IF BOARD,OTHRS,LE1730-6E0
10	C111,C144,	420431000260R	CAP EC 10uF 25V M,105℃ ST 5x11 RoHS
20	C101,C102,	420431010461R	CAP EC 100uF 16V M,105℃ ST 5x11(SK) RoH
30	C130,C133,C142,C145, C105,	420432200460R	CAP EC 22uF 16V M,105℃ ST, 5x11,RoHS
40	C108,	420432210460R	CAP EC 220uF 16V M,105℃ ST 6.3x11 RoHS
50	CN101,	430631060020R	WAFER 2.0mm 6P 180°,RoHS
60	CN105,	430631080130R	WAFER 2x4P 2.0mm,200PHD-2*4ST RoHS
70	X101,	432008010370R	XTAL 14.31818MHz 16pF HC-49US 30PPM,DIP,
80	CN103,	440819015030R	CON D-SUB FEM.15P RA W/O SCREW DZ11AA1-H
ITEM	Location	P/N	Description
		790621340600R	PCBA,IF BOARD,SMD, LE1730-6E0
10	Q103,Q106,	410500045210R	XSTR PMBT3904 NPN 200MA,40V SOT23(PHILIP
10		410500045130R	XSTR MMBT3904 NPN SOT-23(INFIN EON)RoHS
10		410500045140R	XSTR MMBT3904LT1G NPN 200MA 40V SOT23(ON
20	Q102,Q105,	410500046210R	XSTR PMBT3906 PNP 200MA,40V SOT23(PHILIP
20		410500046130R	XSTR MMBT3906 PNP SOT-23(INFIN EON)RoHS
20		410500046180R	XSTR MMBT3906LT1G PNP 200mA 40V SOT23(ON
30	Q101,	410500068290R	XSTR AP2305GN P-CH SOT23(APEC) RoHS
30		410500044270R	XSTR AO3401L P-CH(ALPHA-OMEGA) SOT23 RoH

30		410500075270R	XSTR AO3415 P-CH,SOT23(AOS) RoHS
40	Q107,	410500050210R	XSTR 2N7002,N-CH FET SOT-23 (PHILIPS)RoH
40		410500050130R	XSTR SN7002N N-CH SOT-23(INFINEON),RoHS
40		410500050090R	XSTR 2N7002 N-CH SOT-23(PANJIT)RoHS
50	TVS101,TVS102,TVS103,TVS104,	411020026210R	DIO BAV99 350mW 70V SOT-23(PHI RoHS
50		411020026020R	DIO BAV99-LF 350mW 70V SOT-23 (FEC)RoHS
50		411020026390R	DIO BAV99,SOT-23(INFINEON)RoHS
50		411020026090R	DIO BAV99 350mW 75V SOT-23(PEC RoHS
60	D103,	411020047210R	DIO BAV70 85V SOT23 (PHILIPS) RoHS
60		411020047020R	DIO BAV70-LF, 70V SOT-23(FEC) ROHS
70	ZD101,ZD105,ZD106,ZD107,ZD108,	411100656951R	ZENER 5.6V ZMM5232B-LF DO213AA (FRONTIER
70		411101156950R	ZENER BZV55-C5V6 SOD80C(PHILIP S) RoHS
70		411150356950R	ZENER 5.6V MTZS05-5.6-G,SOD-12 3(MMC)RoH
80	U108,	412000279480R	IC AT24C04N-10SU-2.7 SOP8 4K(A TMEL)RoHS
80		412000279280R	IC M24C04-WMN6TP4K SOP8 (ST) RoHS
80		412000479990R	IC CAT24C04WI-TE13 SOIC-8(CATALYST)RoHS
90	U102,	412000330830R	IC AS1117L-1.8/TR-LF,SOT223(A1 SEMI)RoHS
90		412000330020R	IC LD1117AL-1.8V-A SOT223(UTC) RoHS
100	U101,	412000372830R	IC AS1117L-3.3TR-LF,SOT223(A1S EMI)RoHS
100		412000372020R	IC LD1117AL-3.3V-A SOT-223(UTC RoHS
110	U103,	412000435480R	IC AT24C02BN-10SU-1.8 SOIC8 2K (ATMEL)Ro
110		412000480990R	IC CAT24C02WI-TE13 SOIC-8(CATALYST)RoHS
110		412000480280R	IC M24C02-RMN6TP SO8(ST)RoHS
120	U105,	412000436190R	IC TSUM16AL-LF PQFP100(MSTAR)R oHS
130	U106,	412000373190R	IC SST25VF010A-33-4C-SAE,SOIC- 8(SST)RoH
130		412000486310R	IC PM25LV010A-100SCE SOIC8(PMC)RoHS
130		412000486190R	IC PS25LV010A-100SCE SOIC8(MSTAR)RoHS
140	R190,R170,R171,R103,	414916000050R	RES SMD (0603) 0Ω J,RT RoHS
150	R186,R187,	414916010050R	RES SMD (0603) 10Ω J,RT RoHS
160	R130,R129,R114,R117,R120,R124,R125,R127,R131,R132,R101,R167,R168,R178,R179,	414916010150R	RES SMD (0603) 100Ω J,RT RoHS REV:A
170	R157,R158,R159,R160,R161,R162,R163,	414916010250R	RES SMD (0603) 1KΩ J,RT RoHS REV:A
180	R106,R172,R180,R181,	414916010350R	RES SMD (0603) 10KΩ J,RT RoHS
190	R102,	414916010450R	RES SMD (0603) 100KΩ J,RT REV:A RoHS
200	R105,	414916020350R	RES SMD (0603) 20KΩ J,RT RoHS REV:A
210	R136,R137,	414916022250R	RES SMD (0603) 2.2KΩ J,RT RoHS

220	R121,	414916047150R	RES SMD (0603) 470Ω J,RT RoHS REV:A
230	R108,R110,R122,R149, R150,R154,R155,R173, R174,R166,R182,R183, R184,R185,R109,	414916047250R	RES SMD (0603) 4.7KΩ J,RT RoHS
240	R169,	414916390010R	RES SMD (0603) 390Ω F,RT RoHS
250	R133,R134,R135,	414916750910R	RES SMD (0603) 75Ω F,RT RoHS REV:A
260	RP102,	415751035080R	RP(0612)10KΩx4 1/16W J 8P4R RoHS
270	C158,C159,C160,C161, C162,C163,C164,	419301010560R	C SMD(0603) NPO 100PF/50V J RoHS
280	C153,C154,	419302200560R	C SMD(0603) NPO 22PF/50V J RoHS
290	C126,	419302210560R	C SMD(0603) NPO 220PF/50V J RoHS
300	C125,	419303300560R	C SMD(0603) NPO 33PF/50V J RoHS
310	C103,C104,C106,C107, C109,C129,C156,C131, C132,C134,C135,C136, C137,C139,C141,C143, C147,C148,C149,C150, C151,C152,C166,	419311040060R	C SMD(0603) X7R 0.1uF/50V K RoHS
320	C140,	419311054070R	C SMD(0805) X7R 1uF/16V K RoHS REV:A
330	C112,C113,C114,C115, C116,C117,C118,	419314730060R	C SMD (0603) X7R 0.047uF 50V,K RoHS
340	FB101,	432002312111R	BEAD CORE SMD(0805)120Ω 300mA RoHS
350	FB102,FB103,FB105,F B106,	432002360012R	BEAD CORE SMD(0805)60Ω 800mA GBK201209T
360	CN104,	444099030030R	CON, SMD 1.0mm 30PIN RoHS AL2309-A0G1Z
370		506140005700R	LABEL,BARCODE,BLANK,33x7mm, ROHS,FOR PCB
380		490621300100R	PCB,INTERFACE, LE1730-XE0
390	R107,	414916022150R	RES SMD (0603) 220Ω J,RT RoHS REV:A
400	R113,R116,R119,	414916560910R	RES SMD (0603) 56Ω F,RT RoHS REV:A
410	FB107,FB108,FB109,	432002360140R	BEAD CORE SMD(0603)60Ω 600mA, GBK160808
420		511130002203R	SOLDER PASTE,Sn96.5/Ag3.0/Cu0.5(SAC305 O
420		511130002200R	SOLDER PASTE,Sn96.5-Ag3.0-Cu0.5 ROHS
420		511130002201R	SOLDER PASTE,Sn96.5%Ag3.0%Cu0.5%

2.For CPT

ITEM	Location	P/N	Description
		790621300010R	PCBA,I/F BOARD(040),LE1730-0E0 ROHS
10		790621320600R	PCBA,IF BOARD,OTHRS,LE1730-6E0
20		790621340600R	PCBA,IF BOARD,SMD, LE1730-6E0
30		629030006521R	PROGRAM(040),LE1730-0E0 ROHS

50		511130001201R	SOLDER BAR,Sn96.5/Ag3.0/Cu0.5(SAC305 VAC
50		511130001200R	SOLDER BAR,Sn96.5/Ag3.0/Cu0.5/Ni0.06/Ge0
70		506440003800R	LABEL,BLANK,YELLOW,10x4mm
ITEM	Location	P/N	Description
		790621320600R	PCBA,IF BOARD,OTHRS,LE1730-6E0
10	C111,C144,	420431000260R	CAP EC 10uF 25V M,105℃ ST 5x11 RoHS
20	C101,C102,	420431010461R	CAP EC 100uF 16V M,105℃ ST 5x11(SK) RoH
30	C130,C133,C142,C145,C105,	420432200460R	CAP EC 22uF 16V M,105℃ ST, 5x11,RoHS
40	C108,	420432210460R	CAP EC 220uF 16V M,105℃ ST 6.3x11 RoHS
50	CN101,	430631060020R	WAFER 2.0mm 6P 180°,RoHS
60	CN105,	430631080130R	WAFER 2x4P 2.0mm,200PHD-2*4ST RoHS
70	X101,	432008010370R	XTAL 14.31818MHz 16pF HC-49US 30PPM,DIP,
80	CN103,	440819015030R	CON D-SUB FEM.15P RA W/O SCREW DZ11AA1-H
ITEM	Location	P/N	Description
		790621340600R	PCBA,IF BOARD,SMD, LE1730-6E0
10	Q103,Q106,	410500045210R	XSTR PMBT3904 NPN 200MA,40V SOT23(PHILIP
10		410500045130R	XSTR MMBT3904 NPN SOT-23(INFIN EON)RoHS
10		410500045140R	XSTR MMBT3904LT1G NPN 200MA 40V SOT23(ON
20	Q102,Q105,	410500046210R	XSTR PMBT3906 PNP 200MA,40V SOT23(PHILIP
20		410500046130R	XSTR MMBT3906 PNP SOT-23(INFIN EON)RoHS
20		410500046180R	XSTR MMBT3906LT1G PNP 200mA 40V SOT23(ON
30	Q101,	410500068290R	XSTR AP2305GN P-CH SOT23(APEC) RoHS
30		410500044270R	XSTR AO3401L P-CH(ALPHA-OMEGA) SOT23 RoH
30		410500075270R	XSTR AO3415 P-CH,SOT23(AOS) RoHS
40	Q107,	410500050210R	XSTR 2N7002,N-CH FET SOT-23 (PHILIPS)RoH
40		410500050130R	XSTR SN7002N N-CH SOT-23(INFINEON),RoHS
40		410500050090R	XSTR 2N7002 N-CH SOT-23(PANJIT)RoHS
50	TVS101,TVS102,TVS103,TVS104,	411020026210R	DIO BAV99 350mW 70V SOT-23(PHI RoHS
50		411020026020R	DIO BAV99-LF 350mW 70V SOT-23 (FEC)RoHS
50		411020026390R	DIO BAV99,SOT-23(INFINEON)RoHS
50		411020026090R	DIO BAV99 350mW 75V SOT-23(PEC RoHS
60	D103,	411020047210R	DIO BAV70 85V SOT23 (PHILIPS) RoHS
60		411020047020R	DIO BAV70-LF, 70V SOT-23(FEC) ROHS
70	ZD101,ZD105,ZD106,ZD107,ZD108,	411100656951R	ZENER 5.6V ZMM5232B-LF DO213AA (FRONTIER
70		411101156950R	ZENER BZV55-C5V6 SOD80C(PHILIP S) RoHS
70		411150356950R	ZENER 5.6V MTZS05-5.6-G,SOD-12 3(MMC)RoH

80	U108,	412000279480R	IC AT24C04N-10SU-2.7 SOP8 4K(A TMEL)RoHS
80		412000279280R	IC M24C04-WMN6TP4K SOP8 (ST) RoHS
80		412000479990R	IC CAT24C04WI-TE13 SOIC-8(CATALYST)RoHS
90	U102,	412000330830R	IC AS1117L-1.8/TR-LF,SOT223(A1 SEMI)RoHS
90		412000330020R	IC LD1117AL-1.8V-A SOT223(UTC) RoHS
100	U101,	412000372830R	IC AS1117L-3.3TR-LF,SOT223(A1S EMI)RoHS
100		412000372020R	IC LD1117AL-3.3V-A SOT-223(UTC RoHS
110	U103,	412000435480R	IC AT24C02BN-10SU-1.8 SOIC8 2K (ATMEL)Ro
110		412000480990R	IC CAT24C02WI-TE13 SOIC-8(CATALYST)RoHS
110		412000480280R	IC M24C02-RMN6TP SO8(ST)RoHS
120	U105,	412000436190R	IC TSUM16AL-LF PQFP100(MSTAR)R oHS
130	U106,	412000373190R	IC SST25VF010A-33-4C-SAE,SOIC- 8(SST)RoH
130		412000486310R	IC PM25LV010A-100SCE SOIC8(PMC)RoHS
130		412000486190R	IC PS25LV010A-100SCE SOIC8(MSTAR)RoHS
140	R190,R170,R171,R103,	414916000050R	RES SMD (0603) 0Ω J,RT RoHS
150	R186,R187,	414916010050R	RES SMD (0603) 10Ω J,RT RoHS
160	R130,R129,R114,R117,R120,R124,R125,R127,R131,R132,R101,R167,R168,R178,R179,	414916010150R	RES SMD (0603) 100Ω J,RT RoHS REV:A
170	R157,R158,R159,R160,R161,R162,R163,	414916010250R	RES SMD (0603) 1KΩ J,RT RoHS REV:A
180	R106,R172,R180,R181,	414916010350R	RES SMD (0603) 10KΩ J,RT RoHS
190	R102,	414916010450R	RES SMD (0603) 100KΩ J,RT REV:A RoHS
200	R105,	414916020350R	RES SMD (0603) 20KΩ J,RT RoHS REV:A
210	R136,R137,	414916022250R	RES SMD (0603) 2.2KΩ J,RT RoHS
220	R121,	414916047150R	RES SMD (0603) 470Ω J,RT RoHS REV:A
230	R108,R110,R122,R149,R150,R154,R155,R173,R174,R166,R182,R183,R184,R185,R109,	414916047250R	RES SMD (0603) 4.7KΩ J,RT RoHS
240	R169,	414916390010R	RES SMD (0603) 390Ω F,RT RoHS
250	R133,R134,R135,	414916750910R	RES SMD (0603) 75Ω F,RT RoHS REV:A
260	RP102,	415751035080R	RP(0612)10KΩx4 1/16W J 8P4R RoHS
270	C158,C159,C160,C161,C162,C163,C164,	419301010560R	C SMD(0603) NPO 100PF/50V J RoHS
280	C153,C154,	419302200560R	C SMD(0603) NPO 22PF/50V J RoHS

290	C126,	419302210560R	C SMD(0603) NPO 220PF/50V J RoHS
300	C125,	419303300560R	C SMD(0603) NPO 33PF/50V J RoHS
310	C103,C104,C106,C107,C109,C129,C156,C131,C132,C134,C135,C136,C137,C139,C141,C143,C147,C148,C149,C150,C151,C152,C166,	419311040060R	C SMD(0603) X7R 0.1uF/50V K RoHS
320	C140,	419311054070R	C SMD(0805) X7R 1uF/16V K RoHS REV:A
330	C112,C113,C114,C115,C116,C117,C118,	419314730060R	C SMD (0603) X7R 0.047uF 50V,K RoHS
340	FB101,	432002312111R	BEAD CORE SMD(0805)120Ω 300mA RoHS
350	FB102,FB103,FB105,FB106,	432002360012R	BEAD CORE SMD(0805)60Ω 800mA GBK201209T
360	CN104,	444099030030R	CON, SMD 1.0mm 30PIN RoHS AL2309-A0G1Z
370		506140005700R	LABEL,BARCODE,BLANK,33x7mm, ROHS,FOR PCB
380		490621300100R	PCB,INTERFACE, LE1730-XE0
390	R107,	414916022150R	RES SMD (0603) 220Ω J,RT RoHS REV:A
400	R113,R116,R119,	414916560910R	RES SMD (0603) 56Ω F,RT RoHS REV:A
410	FB107,FB108,FB109,	432002360140R	BEAD CORE SMD(0603)60Ω 600mA, GBK160808
420		511130002203R	SOLDER PASTE,Sn96.5/Ag3.0/Cu0.5(SAC305 O
420		511130002200R	SOLDER PASTE,Sn96.5-Ag3.0-Cu0.5 ROHS
420		511130002201R	SOLDER PASTE,Sn96.5%Ag3.0%Cu0.5%

Power and Inverter Board

ITEM	Location	P/N	Description
		790621400600R	PCBA,PWR&INV./B, LE1730-6E0
10	IC801,	412140002380R	IC LTV817M-PR VDE (LITE-ON) P=10mm RoHS
10		412140001390R	IC EL817M-B(EVERLIGHT)RoHS
20	D801,	411050005020R	DIO BRDG BL4-06-BF52-LF 600V/4A(FRONTIER
20		411050007010R	DIO BRDG KBL405G 600V/4A(TSC) RoHS
20		411050005090R	DIO BRDG FL406 600V/4A(PEC)RoH S
30	C804,	416194743011R	CAP MEX 0.47uF 275V K X2,F15 RoHS
40	C820,C801,C806,	416202224610R	CAP MEY 2200pF 400V M Y,F10mm RoHS
60	C812,C809,	420421020110R	CAP SD 1000uF/10V M,105℃ F,10x16,RoHS
70	C808,	420421020211R	CAP SD 1000uF 25V M,105℃ F 13x20 RoHS
80	C805,	420431014582R	CAP SEK 100uF/450V M,105℃ CF,18x35,RoHS
90	C824,	416204724610R	CAP MEY 4700pF 400V M Y,F10mm RoHS
100	L802,L803,	425000010530R	COIL CHK 5uH 7.8X10 CHK-053 0 181085R0L

110	L801,	426000050070R	CHOKE L-FILTER 12mH LIN-007 ET-20,RoHS
120	T801,	426000090470R	XFMR 750u@1K,+-8%,3m,113m,SPW- 047,DIP-1
130	RT801,	432009400701R	NTC 5Ω 4A 10ψ P=5mm, F RoHS
140	F801,	430613125210R	FUSE SLOW 2.5A/250V,U/C/V,AT,3.6x10,RoHS
150	P801,	440149000220R	SKT AC 10A/250V U/C/V,G/Y=45mm TU-301-SP
160	CN801,	430300600120R	HRN ASS'Y 6P 110mm UL1007#24,RoHS
180	C803,	418247233020R	CAP CD X7R 4700pF 1KV K,W/O FO RMING,RoH
190	CN501,CN502,CN503,CN504,	430637020030R	WFR. 2P P=3.5mm 90°W/LOCK,RoHS
200	T501,T502,	426000090670R	XFMR SW,105uH EEL19M DIP SPW-067,RoHS
210	C525,C527,	418105058010R	CAP CD SL 5pF 3KV K,F7.5 RoHS
220	C524,C526,	418110058510R	CAP CD SL 10pF 3KV J,F7.5 RoHS CC45SL3FD
230	U501,U502,	410500071290R	XSTR AP9971GD,N-CH,PDIP-8(APEC RoHS
230		410050062330R	XSTR AF4971NN N-CH PDIP8(ANACH IP)RoHS
240		735100007400R	ASSY,H/S,UFF80-005CT/UFF80-015CT,LE1730
250		735100005100R	ASSY,H/S TOP245Y, LE1704/05 ROHS
260		790621440600R	PCBA,PWR&INV./B,SMD,LE1730-6E0
270	H501,	502040604500R	SHIELD EMI LE1915 ROHS
280		511130001201R	SOLDER BAR,Sn96.5/Ag3.0/Cu0.5(SAC305 VAC
280		511130001200R	SOLDER BAR,Sn96.5/Ag3.0/Cu0.5/Ni0.06/Ge0
300		511110000101R	HOT-MELT ADHESIVES (#526)
320		511110000501R	SILICONE RTV RUBBER,UB-511(EURO)
ITEM	Location	P/N	Description
		735100005100R	ASSY,H/S TOP245Y, LE1704/05 ROHS
10	IC802,	412000342270R	IC TOP245YN,TO-220-7C,RoHS (POWER INTEGR
20		507200003700R	HEATSINK,46x20xt10mm LE1704/05
30		509112306100R	SCREW,P,CROSS,T.T-3*6,ZnROHS
ITEM	Location	P/N	Description
		735100007400R	ASSY,H/S,UFF80-005CT/UFF80-015CT,LE1730
10	D805,	411090015020R	SCHTKY SRF5-04CT-LF ITO-220AB (FEC) RoHS
10		411090024040R	SCHTKY SRF1040CM 40V/10A ITO22 OAB(MOSPE
10		411090025040R	SCHTKY SRF1045CM 45V/10A ITO22 OAB(MOSPE
20	D803,	411020065020R	DIO UFF80-015CT-LF 150V/8A, ITO-220AC(FR
20		411030058040R	DIO URF1020 200V/10A ITO220(MO SPEC)RoHS
30		507200003800R	HEATSINK,56x20xt10mm LE1904/05
40		509112306100R	SCREW,P,CROSS,T.T-3*6,ZnROHS
ITEM	Location	P/N	Description

		790621440600R	PCBA,PWR&INV./B,SMD,LE1730-6E0
10	Q801,	410500045210R	XSTR PMBT3904 NPN 200MA,40V SOT23(PHILIP
10		410500045140R	XSTR MMBT3904LT1G NPN 200MA 40V SOT23(ON
10		410500045130R	XSTR MMBT3904 NPN SOT-23(INFIN EON)RoHS
20	ZD803,	411150356950R	ZENER 5.6V MTZS05-5.6-G,SOD-12 3(MMC)RoH
20		411100956920R	ZENER 5.6V MMSZ5232A SOD123(PE C)RoHS
20		411131556920R	ZENER 5.6V 0.5W DDZ5V6B-F,SOD1 23(DIODES
30	ZD801,	411150375950R	ZENER 7.5V MTZS05-7.5-G, SOD-123(MMC)RoH
30		411100975920R	ZENER 7.5V MMSZ5236A SOD123(PE C)RoHS
30		411131575952R	ZENER 7.5V 0.5W DDZ7V5C-F,SOD1 23(DIODES
40	ZD804,	411100915020R	ZENER 15V MMSZ5245A SOD123(PEC RoHS
40		411150315050R	ZENER 15V MTZS05-15-G,SOD-123 (MMC) RoHS
40		411131515052R	ZENER 15V 0.5W DDZ15-F,SOD123(DIODES)RoH
50	R809,	414904100010R	RES SMD (1206) 100Ω F,RT RoHS
60	R808,R819,R827,	414908010350R	RES SMD (0805) 10KΩ J,RT RoHS REV:A
70	R801,R805,R822,R823,	414908024550R	RES SMD (0805) 2.4MΩ J,RT RoHS
80	R813,R814,R815,	414908010250R	RES SMD (0805) 1KΩ J,RT RoHS REV:A
90	R825,	414908047450R	RES SMD (0805) 470KΩ J,RT RoHS
100	R510,R511,	414916000050R	RES SMD (0603) 0Ω J,RT RoHS
110	R803,R807,R824,	414908051450R	RES SMD (0805) 510KΩ J,RT RoHS
120	R818,R502,R504,R517,R520,	414908330110R	RES SMD (0805) 3.3KΩ F,RT RoHS REV:A
130	R816,	414908068950R	RES SMD (0805) 6.8Ω J RT RoHS
140	R811,	414908430210R	RES SMD (0805) 43KΩ F,RT,RoHS
150	R817,	414908820110R	RES SMD (0805) 8.2KΩ F,RT RoHS
160	R802,R806,	414904010050R	RES SMD (1206) 10Ω J,RT RoHS
170	R829,	414908020150R	RES SMD (0805) 200Ω J,RT RoHS
180	R810,	414908510110R	RES SMD (0805) 5.1KΩ F,RT RoHS
190	R522,	414916390210R	RES SMD (0603) 39KΩ F,RT RoHS
200	R518,R519,	414908100310R	RES SMD (0805) 100KΩ F,RT,RoHS
210	R514,	414916010450R	RES SMD (0603) 100KΩ J,RT REV:A RoHS
220	R527,	414916330410R	RES SMD (0603) 3.3M F RT RoHS
240	R512,R526,	414916010350R	RES SMD (0603) 10KΩ J,RT RoHS
250	R538,	414916604310R	RES SMD (0603) 604KΩ F,RT RoHS
260	R513,R529,R530,	414916010550R	RES SMD (0603) 1MΩ J,RT RoHS REV:A

270	R523,	414916330210R	RES SMD (0603) 33KΩ F,RT RoHS
290	R524,	414916220210R	RES SMD (0603) 22KΩ F,RT RoHS
300	R515,R516,	414908220210R	RES SMD (0805) 22KΩ F,RT,RoHS
310	C507,C511,	419342254670R	C SMD(0805) Y5V 2.2uF/16V Z RoHS
320	C821,	419311040060R	C SMD(0603) X7R 0.1uF/50V K RoHS
330	C510,	419316830060R	C SMD (0603) X7R 0.068uF 50V,K RoHS
340	C523,C530,	419316810070R	C SMD(0805) X7R 680PF/50V K,RoHS
350	C529,	419304710560R	C SMD(0603) NPO 470PF/50V,J,RoHS
360	C504,	419311020060R	C SMD(0603) X7R 1000PF/50V K RoHS
370	C506,	419314720060R	C SMD(0603) X7R 4700PF/50V K RoHS
380	C501,C502,C513,C514,	419312220060R	C SMD(0603) X7R 2200PF/50V K RoHS
390	C505,	419311030060R	C SMD(0603) X7R 0.01uF/50V K RoHS
400	D506,	411023004021R	DIO SN4148-LF 75V/0.15A SMD 1206 (FEC)Ro
400		411020046090R	DIO 1N4148W 75V/0.15A(PEC)RoHS SOD-123
410	D501,D502,	411020026210R	DIO BAV99 350mW 70V SOT-23(PHI RoHS
410		411020026020R	DIO BAV99-LF 350mW 70V SOT-23 (FEC)RoHS
410		411020026390R	DIO BAV99,SOT-23(INFINEON)RoHS
410		411020026090R	DIO BAV99 350mW 75V SOT-23(PEC RoHS
420	D503,D504,	411020047210R	DIO BAV70 85V SOT23 (PHILIPS) RoHS
420		411020047020R	DIO BAV70-LF, 70V SOT-23(FEC) ROHS
430	D505,	411020068210R	DIO BAW56 85V SOT-23(PHILIPS)RoHS
430		411020068020R	DIO BAW56 70V SOT-23(FRONTIER)RoHS
430		411020068090R	DIO BAW56 75V SOT-23(PANJIT)RoHS
440	IC501,	412000455630R	IC OZ9938GN SOIC16(O2 MICRO)RoHS
450	C516,C512,	419313330060R	C SMD(0603) X7R 0.033uF/50V K ROHS
460		790621410600R	PCBA,PWR&INV./B,AI,LE1730-6E0
470	R509,	414916200010R	RES SMD (0603) 200Ω F,RT RoHS
480	R534,	414916100210R	RES SMD (0603) 10KΩ F,RT RoHS
500	C508,	419312230060R	C SMD(0603) X7R 0.022uF/50V K RoHS
510		506140005700R	LABEL,BARCODE,BLANK,33x7mm, ROHS,FOR PCB
520	ZD805,	411100991920R	ZENER 9.1V MMSZ5239A SOD123(PE C)RoHS
520		411131591952R	ZENER 9.1V 0.5W DDZ9V1C-F,SOD1 23(DIODES
520		411150391950R	ZENER 9.1V MTZS05-9.1-G SOD-123 (MITSUBI
ITEM	Location	P/N	Description
		790621410600R	PCBA,PWR&INV./B,AI,LE1730-6E0
10		790621450600R	PCBA,PWR&INV./B,AI/A, LE1730-6E0
30		790621460600R	PCBA,PWR&INV./B,AI/R, LE1730-6E0
ITEM	Location	P/N	Description

		790621450600R	PCBA,PWR&INV./B,AI/A, LE1730-6E0
10	R804,	415130680540R	RES CF 1/2W 68Ω J,AT RoHS REV:A
20	R828,	415340101540R	RES MOF 1W 100Ω J,AT MINI RoHS
30	D806,	411020052020R	DIO A02-LF 200V/1A R1(FEC)RoHS
30		411030003040R	DIO FR103 200V/1A DO-41(MOSPEC RoHS
40	D809,	411022003210R	DIO 1N4148 75V/0.2A AT (PHIL) RoHS
40		411022003020R	DIO 1N4148-LF 75V/0.15A AT (FEC)RoHS
40		411020048090R	DIO 1N4148-35 75V/0.15A,DO35(P EC)RoHS
50	D804,	411020053090R	DIO PS1010R 1000V/1A DO-41(PAN JIT)RoHS
50		411032006020R	DIO FR10-10-LF 1000V/1A AT(FRO NTIER)RoH
60	ZD802,	411020050090R	DIO P6KE150A,DO-15,AT(PANJIT)RoHS
60		411020050020R	DIO P6KE150A-LF AT(FRONTIER) RoHS
60		411020050010R	DIO P6KE150A,DO-15AT,(TSC)RoHS
70	B801,	432002200160R	BEAD CORE BF30TA-3.5x9x0.8 AT
80	R820,R821,	415030105540R	RES CF 1/2W 1MΩ J,AT MINI RoHS
90	R506,R508,R532,R533,	414030330540R	RES FSM 1/2W 33Ω J,AT MINI,RoHS
100	R501,R503,	414870305540R	RES MG HV 1/2Ws 3MΩ 3KV J,AT RoHS
110	J502,J507,J510,J516,J804,J805,J809,	430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 7.5mm
110		430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 7.5mm
120	J503,J505,J514,J801,J803,J808,	430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 10mm
120		430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 10mm
130	J508,J513,J515,J810,	430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 12.5mm
130		430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 12.5mm
140	J501,J512,J802,J511,	430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 15mm
140		430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 15mm
150	J506,J509,	430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 17.5mm
150		430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 17.5mm
160		700000000100R	ASSY,PCB&RIVENT,LE1730
170	R521,	415020330540R	RES CF 1/4W 33Ω J,AT MINI RoHS
180	R812,	414020689540R	RES FSM 1/4W 6.8Ω J AT MINI,RoHS
ITEM	Location	P/N	Description
		790621460600R	PCBA,PWR&INV./B,AI/R, LE1730-6E0
10	C813,	418147038530R	CAP CD NPO 47pF 1KV J,VT RoHS

20	C802,C811,	418210227030R	CAP CD X7R 1000pF 500V K VT RoHS
30	C817,C822,	419111040030R	CAP MTL X7R 0.1uF 50V K,VT, RoHS
40	C814,C815,C818,C819,	420264700230R	CAP SH 47uF 25V M,125℃,VT, 6.3x11,RoHS
50	Q802,	410072013210R	XSTR 2PC1815GR*I VT (PHILIPS) RoHS REV:
50		410072013370R	XSTR 2SC1815-GR (T2SPF.T) VT (TOSHIBA)Ro
50		410072013150R	XSTR UTC2SC1815L-GR NPN TO92 (UTC)RoHS
60	IC803,	412022002840R	IC TL431ACLPG TO-92 1%,VT(ON)RoHS
60		412022002240R	IC KA431AZ 1%,VT (FAIRCHILD) RoHS
60		412022002300R	IC AP431VL TO-92 1% VT (ATC) RoHS
60		412022002830R	IC AS431 TO-92 VT(A1SEMI)RoHS
70	C816,	416231041530R	CAP MEB 0.1uF 100V J,(RSB),VT RSBEC3100D
70		416141041531R	CAP MKT 0.1uF 100V J,VT(ARCO) RoHS,R82EC
80	C810,	420424710260R	CAP SD 470uF/25V M 105℃ ST 10x16,RoHS
90	C509,C522,	420421510330R	CAP SD 150uF 35V M,105℃ VT 8x12 RoHS
ITEM	Location	P/N	Description
		700000000100R	ASSY,PCB&RIVENT,LE1730
10		490621400100R	PCB,PWR&INV./B, LE1730-XE0
20	M3,M4,M5,M6,M7,M8,	512006000500R	RIVET,Φ3.0xΦ1.6x3.0mm
30	M1,M2,	512006000600R	RIVET,Φ4.1xΦ2.2x3.0mm

Related to Models : L1718S-SNQ/BNQ.AxxKEP for 8ms Innolux module and
L1718S-SNQ/BNQ.AxxBEP for 8ms CPT module

IF Board

1. For INL

ITEM	Location	P/N	Description
		790621300600R	PCBA,IF BOARD, LE1730-6E0
10		790621320600R	PCBA,IF BOARD,OTHRS,LE1730-6E0
20		790621340600R	PCBA,IF BOARD,SMD, LE1730-6E0
30		629030006500R	PROGRAM, LE1730-6E0
50		511130001201R	SOLDER BAR,Sn96.5/Ag3.0/Cu0.5(SAC305 VAC
50		511130001200R	SOLDER BAR,Sn96.5/Ag3.0/Cu0.5/Ni0.06/Ge0
70		506440003800R	LABEL,BLANK,YELLOW,10x4mm
ITEM	Location	P/N	Description
		790621320600R	PCBA,IF BOARD,OTHRS,LE1730-6E0
10	C111,C144,	420431000260R	CAP EC 10uF 25V M,105℃ ST 5x11 RoHS
20	C101,C102,	420431010461R	CAP EC 100uF 16V M,105℃ ST 5x11(SK) RoH

30	C130,C133, C142,C145, C105,	420432200460R	CAP EC 22uF 16V M,105℃ ST, 5x11,RoHS
40	C108,	420432210460R	CAP EC 220uF 16V M,105℃ ST 6.3x11 RoHS
50	CN101,	430631060020R	WAFER 2.0mm 6P 180°,RoHS
60	CN105,	430631080130R	WAFER 2x4P 2.0mm,200PHD-2*4ST RoHS
70	X101,	432008010370R	XTAL 14.31818MHz 16pF HC-49US 30PPM,DIP,
80	CN103,	440819015030R	CON D-SUB FEM.15P RA W/O SCREW DZ11AA1-H
ITEM	Location	P/N	Description
		790621340600R	PCBA,IF BOARD,SMD, LE1730-6E0
10	Q103,Q106,	410500045210R	XSTR PMBT3904 NPN 200MA,40V SOT23(PHILIP
10		410500045130R	XSTR MMBT3904 NPN SOT-23(INFIN EON)RoHS
10		410500045140R	XSTR MMBT3904LT1G NPN 200MA 40V SOT23(ON
20	Q102,Q105,	410500046210R	XSTR PMBT3906 PNP 200MA,40V SOT23(PHILIP
20		410500046130R	XSTR MMBT3906 PNP SOT-23(INFIN EON)RoHS
20		410500046180R	XSTR MMBT3906LT1G PNP 200mA 40V SOT23(ON
30	Q101,	410500068290R	XSTR AP2305GN P-CH SOT23(APEC) RoHS
30		410500044270R	XSTR AO3401L P-CH(ALPHA-OMEGA) SOT23 RoH
30		410500075270R	XSTR AO3415 P-CH,SOT23(AOS) RoHS
40	Q107,	410500050210R	XSTR 2N7002,N-CH FET SOT-23 (PHILIPS)RoH
40		410500050130R	XSTR SN7002N N-CH SOT-23(INFINEON),RoHS
40		410500050090R	XSTR 2N7002 N-CH SOT-23(PANJIT)RoHS
50	TVS101,TVS 102,TVS103, TVS104,	411020026210R	DIO BAV99 350mW 70V SOT-23(PHI RoHS
50		411020026020R	DIO BAV99-LF 350mW 70V SOT-23 (FEC)RoHS
50		411020026390R	DIO BAV99,SOT-23(INFINEON)RoHS
50		411020026090R	DIO BAV99 350mW 75V SOT-23(PEC RoHS
60	D103,	411020047210R	DIO BAV70 85V SOT23 (PHILIPS) RoHS
60		411020047020R	DIO BAV70-LF, 70V SOT-23(FEC) ROHS
70	ZD101,ZD10 5,ZD106,ZD 107,ZD108,	411100656951R	ZENER 5.6V ZMM5232B-LF DO213AA (FRONTIER
70		411101156950R	ZENER BZV55-C5V6 SOD80C(PHILIP S) RoHS
70		411150356950R	ZENER 5.6V MTZS05-5.6-G,SOD-12 3(MMC)RoH
80	U108,	412000279480R	IC AT24C04N-10SU-2.7 SOP8 4K(A TMEL)RoHS
80		412000279280R	IC M24C04-WMN6TP4K SOP8 (ST) RoHS
80		412000479990R	IC CAT24C04WI-TE13 SOIC-8(CATALYST)RoHS
90	U102,	412000330830R	IC AS1117L-1.8/TR-LF,SOT223(A1 SEMI)RoHS
90		412000330020R	IC LD1117AL-1.8V-A SOT223(UTC) RoHS
100	U101,	412000372830R	IC AS1117L-3.3TR-LF,SOT223(A1S EMI)RoHS
100		412000372020R	IC LD1117AL-3.3V-A SOT-223(UTC RoHS
110	U103,	412000435480R	IC AT24C02BN-10SU-1.8 SOIC8 2K (ATMEL)Ro

110		412000480990R	IC CAT24C02WI-TE13 SOIC-8(CATALYST)RoHS
110		412000480280R	IC M24C02-RMN6TP SO8(ST)RoHS
120	U105,	412000436190R	IC TSUM16AL-LF PQFP100(MSTAR)R oHS
130	U106,	412000373190R	IC SST25VF010A-33-4C-SAE,SOIC- 8(SST)RoH
130		412000486310R	IC PM25LV010A-100SCE SOIC8(PMC)RoHS
130		412000486190R	IC PS25LV010A-100SCE SOIC8(MSTAR)RoHS
140	R190,R170, R171,R103,	414916000050R	RES SMD (0603) 0Ω J,RT RoHS
150	R186,R187,	414916010050R	RES SMD (0603) 10Ω J,RT RoHS
160	R130,R129, R114,R117, R120,R124, R125,R127, R131,R132, R101,R167, R168,R178, R179,	414916010150R	RES SMD (0603) 100Ω J,RT RoHS REV:A
170	R157,R158, R159,R160, R161,R162, R163,	414916010250R	RES SMD (0603) 1KΩ J,RT RoHS REV:A
180	R106,R172, R180,R181,	414916010350R	RES SMD (0603) 10KΩ J,RT RoHS
190	R102,	414916010450R	RES SMD (0603) 100KΩ J,RT REV:A RoHS
200	R105,	414916020350R	RES SMD (0603) 20KΩ J,RT RoHS REV:A
210	R136,R137,	414916022250R	RES SMD (0603) 2.2KΩ J,RT RoHS
220	R121,	414916047150R	RES SMD (0603) 470Ω J,RT RoHS REV:A
230	R108,R110, R122,R149, R150,R154, R155,R173, R174,R166, R182,R183, R184,R185, R109,	414916047250R	RES SMD (0603) 4.7KΩ J,RT RoHS
240	R169,	414916390010R	RES SMD (0603) 390Ω F,RT RoHS
250	R133,R134, R135,	414916750910R	RES SMD (0603) 75Ω F,RT RoHS REV:A
260	RP102,	415751035080R	RP(0612)10KΩx4 1/16W J 8P4R RoHS
270	C158,C159, C160,C161, C162,C163, C164,	419301010560R	C SMD(0603) NPO 100PF/50V J RoHS
280	C153,C154,	419302200560R	C SMD(0603) NPO 22PF/50V J RoHS
290	C126,	419302210560R	C SMD(0603) NPO 220PF/50V J RoHS
300	C125,	419303300560R	C SMD(0603) NPO 33PF/50V J RoHS

310	C103,C104, C106,C107, C109,C129, C156,C131, C132,C134, C135,C136, C137,C139, C141,C143, C147,C148, C149,C150, C151,C152, C166,	419311040060R	C SMD(0603) X7R 0.1uF/50V K RoHS
320	C140,	419311054070R	C SMD(0805) X7R 1uF/16V K RoHS REV:A
330	C112,C113, C114,C115, C116,C117, C118,	419314730060R	C SMD (0603) X7R 0.047uF 50V,K RoHS
340	FB101,	432002312111R	BEAD CORE SMD(0805)120Ω 300mA RoHS
350	FB102,FB10 3,FB105,FB1 06,	432002360012R	BEAD CORE SMD(0805)60Ω 800mA GBK201209T
360	CN104,	444099030030R	CON, SMD 1.0mm 30PIN RoHS AL2309-A0G1Z
370		506140005700R	LABEL,BARCODE,BLANK,33x7mm, ROHS,FOR PCB
380		490621300100R	PCB,INTERFACE, LE1730-XE0
390	R107,	414916022150R	RES SMD (0603) 220Ω J,RT RoHS REV:A
400	R113,R116, R119,	414916560910R	RES SMD (0603) 56Ω F,RT RoHS REV:A
410	FB107,FB10 8,FB109,	432002360140R	BEAD CORE SMD(0603)60Ω 600mA, GBK160808
420		511130002203R	SOLDER PASTE,Sn96.5/Ag3.0/Cu0.5(SAC305 O
420		511130002200R	SOLDER PASTE,Sn96.5-Ag3.0-Cu0.5 ROHS
420		511130002201R	SOLDER PASTE,Sn96.5%Ag3.0%Cu0.5%

2. For CPT

ITEM	Location	P/N	Description
		790621300000R	PCBA,IF BOARD, LE1730-0E0
10		790621320600R	PCBA,IF BOARD,OTHRS,LE1730-6E0
20		790621340600R	PCBA,IF BOARD,SMD, LE1730-6E0
30		629030006520R	PROGRAM, LE1730-0E0
50		511130001201R	SOLDER BAR,Sn96.5/Ag3.0/Cu0.5(SAC305 VAC
50		511130001200R	SOLDER BAR,Sn96.5/Ag3.0/Cu0.5/Ni0.06/Ge0
70		506440003800R	LABEL,BLANK,YELLOW,10x4mm
ITEM	Location	P/N	Description
		790621320600R	PCBA,IF BOARD,OTHRS,LE1730-6E0
10	C111,C1 44,	420431000260R	CAP EC 10uF 25V M,105℃ ST 5x11 RoHS
20	C101,C1 02,	420431010461R	CAP EC 100uF 16V M,105℃ ST 5x11(SK) RoH
30	C130,C1 33,C142 ,C145,C 105,	420432200460R	CAP EC 22uF 16V M,105℃ ST, 5x11,RoHS

40	C108,	420432210460R	CAP EC 220uF 16V M,105℃ ST 6.3x11 RoHS
50	CN101,	430631060020R	WAFER 2.0mm 6P 180°,RoHS
60	CN105,	430631080130R	WAFER 2x4P 2.0mm,200PHD-2*4ST RoHS
70	X101,	432008010370R	XTAL 14.31818MHz 16pF HC-49US 30PPM,DIP,
80	CN103,	440819015030R	CON D-SUB FEM.15P RA W/O SCREW DZ11AA1-H

ITEM	Location	P/N	Description
		790621340600R	PCBA,IF BOARD,SMD, LE1730-6E0
10	Q103,Q106,	410500045210R	XSTR PMBT3904 NPN 200MA,40V SOT23(PHILIP
10		410500045130R	XSTR MMBT3904 NPN SOT-23(INFIN EON)RoHS
10		410500045140R	XSTR MMBT3904LT1G NPN 200MA 40V SOT23(ON
20	Q102,Q105,	410500046210R	XSTR PMBT3906 PNP 200MA,40V SOT23(PHILIP
20		410500046130R	XSTR MMBT3906 PNP SOT-23(INFIN EON)RoHS
20		410500046180R	XSTR MMBT3906LT1G PNP 200mA 40V SOT23(ON
30	Q101,	410500068290R	XSTR AP2305GN P-CH SOT23(APEC) RoHS
30		410500044270R	XSTR AO3401L P-CH(ALPHA-OMEGA) SOT23 RoH
30		410500075270R	XSTR AO3415 P-CH,SOT23(AOS) RoHS
40	Q107,	410500050210R	XSTR 2N7002,N-CH FET SOT-23 (PHILIPS)RoH
40		410500050130R	XSTR SN7002N N-CH SOT-23(INFINEON),RoHS
40		410500050090R	XSTR 2N7002 N-CH SOT-23(PANJIT)RoHS
50	TVS101, TVS102, TVS103, TVS104,	411020026210R	DIO BAV99 350mW 70V SOT-23(PHI RoHS
50		411020026020R	DIO BAV99-LF 350mW 70V SOT-23 (FEC)RoHS
50		411020026390R	DIO BAV99,SOT-23(INFINEON)RoHS
50		411020026090R	DIO BAV99 350mW 75V SOT-23(PEC RoHS
60	D103,	411020047210R	DIO BAV70 85V SOT23 (PHILIPS) RoHS
60		411020047020R	DIO BAV70-LF, 70V SOT-23(FEC) ROHS
70	ZD101,ZD105,ZD106,ZD107,ZD108,	411100656951R	ZENER 5.6V ZMM5232B-LF DO213AA (FRONTIER
70		411101156950R	ZENER BZV55-C5V6 SOD80C(PHILIP S) RoHS
70		411150356950R	ZENER 5.6V MTZS05-5.6-G,SOD-12 3(MMC)RoH
80	U108,	412000279480R	IC AT24C04N-10SU-2.7 SOP8 4K(A TMEL)RoHS
80		412000279280R	IC M24C04-WMN6TP4K SOP8 (ST) RoHS
80		412000479990R	IC CAT24C04WI-TE13 SOIC-8(CATALYST)RoHS
90	U102,	412000330830R	IC AS1117L-1.8/TR-LF,SOT223(A1 SEMI)RoHS
90		412000330020R	IC LD1117AL-1.8V-A SOT223(UTC) RoHS
100	U101,	412000372830R	IC AS1117L-3.3TR-LF,SOT223(A1S EMI)RoHS
100		412000372020R	IC LD1117AL-3.3V-A SOT-223(UTC RoHS
110	U103,	412000435480R	IC AT24C02BN-10SU-1.8 SOIC8 2K (ATMEL)Ro

110		412000480990R	IC CAT24C02WI-TE13 SOIC-8(CATALYST)RoHS
110		412000480280R	IC M24C02-RMN6TP SO8(ST)RoHS
120	U105,	412000436190R	IC TSUM16AL-LF PQFP100(MSTAR)R oHS
130	U106,	412000373190R	IC SST25VF010A-33-4C-SAE,SOIC- 8(SST)RoH
130		412000486310R	IC PM25LV010A-100SCE SOIC8(PMC)RoHS
130		412000486190R	IC PS25LV010A-100SCE SOIC8(MSTAR)RoHS
140	R190,R170,R171,R103,	414916000050R	RES SMD (0603) 0Ω J,RT RoHS
150	R186,R187,	414916010050R	RES SMD (0603) 10Ω J,RT RoHS
160	R130,R129,R114,R117,R120,R124,R125,R127,R131,R132,R101,R167,R168,R178,R179,	414916010150R	RES SMD (0603) 100Ω J,RT RoHS REV:A
170	R157,R158,R159,R160,R161,R162,R163,	414916010250R	RES SMD (0603) 1KΩ J,RT RoHS REV:A
180	R106,R172,R180,R181,	414916010350R	RES SMD (0603) 10KΩ J,RT RoHS
190	R102,	414916010450R	RES SMD (0603) 100KΩ J,RT REV:A RoHS
200	R105,	414916020350R	RES SMD (0603) 20KΩ J,RT RoHS REV:A
210	R136,R137,	414916022250R	RES SMD (0603) 2.2KΩ J,RT RoHS
220	R121,	414916047150R	RES SMD (0603) 470Ω J,RT RoHS REV:A
230	R108,R110,R122,R149,R150,R154,R155,R173,R174,R166,R182,R183,R184,R185,R109,	414916047250R	RES SMD (0603) 4.7KΩ J,RT RoHS
240	R169,	414916390010R	RES SMD (0603) 390Ω F,RT RoHS
250	R133,R134,R135,	414916750910R	RES SMD (0603) 75Ω F,RT RoHS REV:A
260	RP102,	415751035080R	RP(0612)10KΩx4 1/16W J 8P4R RoHS
270	C158,C159,C160,C161,C162,C163,C164,	419301010560R	C SMD(0603) NPO 100PF/50V J RoHS
280	C153,C154,	419302200560R	C SMD(0603) NPO 22PF/50V J RoHS
290	C126,	419302210560R	C SMD(0603) NPO 220PF/50V J RoHS
300	C125,	419303300560R	C SMD(0603) NPO 33PF/50V J RoHS

310	C103,C104,C106,C107,C109,C129,C156,C131,C132,C134,C135,C136,C137,C139,C141,C143,C147,C148,C149,C150,C151,C152,C166,	419311040060R	C SMD(0603) X7R 0.1uF/50V K RoHS
320	C140,	419311054070R	C SMD(0805) X7R 1uF/16V K RoHS REV:A
330	C112,C113,C114,C115,C116,C117,C118,	419314730060R	C SMD (0603) X7R 0.047uF 50V,K RoHS
340	FB101,	432002312111R	BEAD CORE SMD(0805)120Ω 300mA RoHS
350	FB102,FB103,FB105,FB106,	432002360012R	BEAD CORE SMD(0805)60Ω 800mA GBK201209T
360	CN104,	444099030030R	CON, SMD 1.0mm 30PIN RoHS AL2309-A0G1Z
370		506140005700R	LABEL,BARCODE,BLANK,33x7mm, ROHS,FOR PCB
380		490621300100R	PCB,INTERFACE, LE1730-XE0
390	R107,	414916022150R	RES SMD (0603) 220Ω J,RT RoHS REV:A
400	R113,R116,R119,	414916560910R	RES SMD (0603) 56Ω F,RT RoHS REV:A
410	FB107,FB108,FB109,	432002360140R	BEAD CORE SMD(0603)60Ω 600mA, GBK160808
420		511130002203R	SOLDER PASTE,Sn96.5/Ag3.0/Cu0.5(SAC305 O
420		511130002200R	SOLDER PASTE,Sn96.5-Ag3.0-Cu0.5 ROHS
420		511130002201R	SOLDER PASTE,Sn96.5%Ag3.0%Cu0.5%

Power and Inverter Board

ITEM	Location	P/N	Description
		790621400600R	PCBA,PWR&INV./B, LE1730-6E0
10	IC801,	412140002380R	IC LTV817M-PR VDE (LITE-ON) P=10mm RoHS
10		412140001390R	IC EL817M-B(EVERLIGHT)RoHS
20	D801,	411050005020R	DIO BRDG BL4-06-BF52-LF 600V/4A(FRONTIER
20		411050007010R	DIO BRDG KBL405G 600V/4A(TSC) RoHS
20		411050005090R	DIO BRDG FL406 600V/4A(PEC)RoH S
30	C804,	416194743011R	CAP MEX 0.47uF 275V K X2,F15 RoHS
40	C820,C801,C806,	416202224610R	CAP MEY 2200pF 400V M Y,F10mm RoHS
60	C812,C809,	420421020110R	CAP SD 1000uF/10V M,105℃ F,10x16,RoHS

70	C808,	420421020211R	CAP SD 1000uF 25V M,105℃ F 13x20 RoHS
80	C805,	420431014582R	CAP SEK 100uF/450V M,105℃ CF,18x35,RoHS
90	C824,	416204724610R	CAP MEY 4700pF 400V M Y,F10mm RoHS
100	L802,L803,	425000010530R	COIL CHK 5uH 7.8X10 CHK-053 0 181085R0L
110	L801,	426000050070R	CHOKE L-FILTER 12mH LIN-007 ET-20,RoHS
120	T801,	426000090470R	XFMR 750u@1K,+-8%,3m,113m,SPW- 047,DIP-1
130	RT801,	432009400701R	NTC 5Ω 4A 10ψ P=5mm, F RoHS
140	F801,	430613125210R	FUSE SLOW 2.5A/250V,U/C/V,AT,3.6x10,RoHS
150	P801,	440149000220R	SKT AC 10A/250V U/C/V,G/Y=45mm TU-301-SP
160	CN801,	430300600120R	HRN ASS'Y 6P 110mm UL1007#24,RoHS
180	C803,	418247233020R	CAP CD X7R 4700pF 1KV K,W/O FO RMING,RoH
190	CN501,CN502,CN503,CN504,	430637020030R	WFR. 2P P=3.5mm 90°W/LOCK,RoHS
200	T501,T502,	426000090670R	XFMR SW,105uH EEL19M DIP SPW-067,RoHS
210	C525,C527,	418105058010R	CAP CD SL 5pF 3KV K,F7.5 RoHS
220	C524,C526,	418110058510R	CAP CD SL 10pF 3KV J,F7.5 RoHS CC45SL3FD
230	U501,U502,	410500071290R	XSTR AP9971GD,N-CH,PDIP-8(APEC RoHS
230		410050062330R	XSTR AF4971NN N-CH PDIP8(ANACH IP)RoHS
240		735100007400R	ASSY,H/S,UFF80-005CT/UFF80-015CT,LE1730
250		735100005100R	ASSY,H/S TOP245Y, LE1704/05 ROHS
260		790621440600R	PCBA,PWR&INV./B,SMD,LE1730-6E0
270	H501,	502040604500R	SHIELD EMI LE1915 ROHS
280		511130001201R	SOLDER BAR,Sn96.5/Ag3.0/Cu0.5(SAC305 VAC
280		511130001200R	SOLDER BAR,Sn96.5/Ag3.0/Cu0.5/Ni0.06/Ge0
300		511110000101R	HOT-MELT ADHESIVES (#526)
320		511110000501R	SILICONE RTV RUBBER,UB-511(EURO)

ITEM	Location	P/N	Description
		735100005100R	ASSY,H/S TOP245Y, LE1704/05 ROHS
10	IC802,	412000342270R	IC TOP245YN,TO-220-7C,RoHS (POWER INTEGR
20		507200003700R	HEATSINK,46x20xt10mm LE1704/05
30		509112306100R	SCREW,P,CROSS,T.T-3*6,ZnROHS

ITEM	Location	P/N	Description
		735100007400R	ASSY,H/S,UFF80-005CT/UFF80-015CT,LE1730
10	D805,	411090015020R	SCHTKY SRF5-04CT-LF ITO-220AB (FEC) RoHS
10		411090024040R	SCHTKY SRF1040CM 40V/10A ITO22 OAB(MOSPE
10		411090025040R	SCHTKY SRF1045CM 45V/10A ITO22 OAB(MOSPE
20	D803,	411020065020R	DIO UFF80-015CT-LF 150V/8A, ITO-220AC(FR

20		411030058040R	DIO URF1020 200V/10A ITO220(MO SPEC)RoHS
30		507200003800R	HEATSINK,56x20xt10mm LE1904/05
40		509112306100R	SCREW,P,CROSS,T.T-3*6,ZnROHS
ITEM	Location	P/N	Description
		790621440600R	PCBA,PWR&INV./B,SMD,LE1730-6E0
10	Q801,	410500045210R	XSTR PMBT3904 NPN 200MA,40V SOT23(PHILIP
10		410500045140R	XSTR MMBT3904LT1G NPN 200MA 40V SOT23(ON
10		410500045130R	XSTR MMBT3904 NPN SOT-23(INFIN EON)RoHS
20	ZD803,	411150356950R	ZENER 5.6V MTZS05-5.6-G,SOD-12 3(MMC)RoH
20		411100956920R	ZENER 5.6V MMSZ5232A SOD123(PE C)RoHS
20		411131556920R	ZENER 5.6V 0.5W DDZ5V6B-F,SOD1 23(DIODES
30	ZD801,	411150375950R	ZENER 7.5V MTZS05-7.5-G, SOD-123(MMC)RoH
30		411100975920R	ZENER 7.5V MMSZ5236A SOD123(PE C)RoHS
30		411131575952R	ZENER 7.5V 0.5W DDZ7V5C-F,SOD1 23(DIODES
40	ZD804,	411100915020R	ZENER 15V MMSZ5245A SOD123(PEC RoHS
40		411150315050R	ZENER 15V MTZS05-15-G,SOD-123 (MMC) RoHS
40		411131515052R	ZENER 15V 0.5W DDZ15-F,SOD123(DIODES)RoH
50	R809,	414904100010R	RES SMD (1206) 100Ω F,RT RoHS
60	R808,R819,R827,	414908010350R	RES SMD (0805) 10KΩ J,RT RoHS REV:A
70	R801,R805,R822,R823,	414908024550R	RES SMD (0805) 2.4MΩ J,RT RoHS
80	R813,R814,R815,	414908010250R	RES SMD (0805) 1KΩ J,RT RoHS REV:A
90	R825,	414908047450R	RES SMD (0805) 470KΩ J,RT RoHS
100	R510,R511,	414916000050R	RES SMD (0603) 0Ω J,RT RoHS
110	R803,R807,R824,	414908051450R	RES SMD (0805) 510KΩ J,RT RoHS
120	R818,R502,R504,R517,R520,	414908330110R	RES SMD (0805) 3.3KΩ F,RT RoHS REV:A
130	R816,	414908068950R	RES SMD (0805) 6.8Ω J RT RoHS
140	R811,	414908430210R	RES SMD (0805) 43KΩ F,RT,RoHS
150	R817,	414908820110R	RES SMD (0805) 8.2KΩ F,RT RoHS
160	R802,R806,	414904010050R	RES SMD (1206) 10Ω J,RT RoHS
170	R829,	414908020150R	RES SMD (0805) 200Ω J,RT RoHS
180	R810,	414908510110R	RES SMD (0805) 5.1KΩ F,RT RoHS
190	R522,	414916390210R	RES SMD (0603) 39KΩ F,RT RoHS
200	R518,R519,	414908100310R	RES SMD (0805) 100KΩ F,RT,RoHS

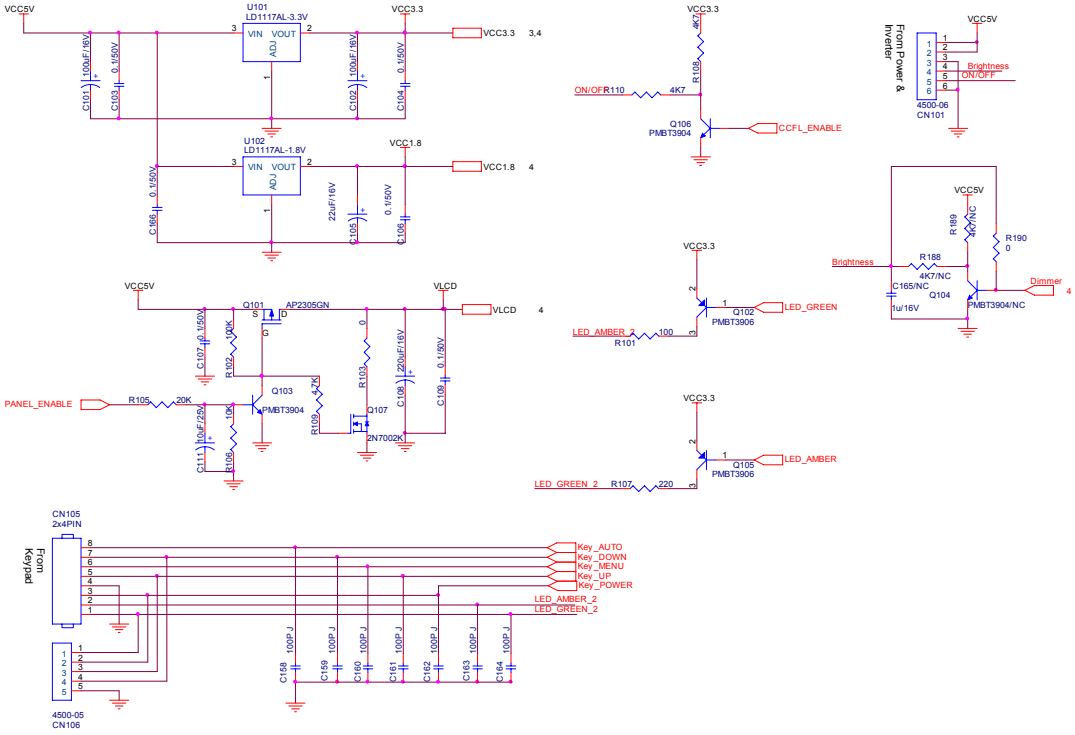
210	R514,	414916010450R	RES SMD (0603) 100KΩ J,RT REV:A RoHS
220	R527,	414916330410R	RES SMD (0603) 3.3M F RT RoHS
240	R512,R526,	414916010350R	RES SMD (0603) 10KΩ J,RT RoHS
250	R538,	414916604310R	RES SMD (0603) 604KΩ F,RT RoHS
260	R513,R529,R530,	414916010550R	RES SMD (0603) 1MΩ J,RT RoHS REV:A
270	R523,	414916330210R	RES SMD (0603) 33KΩ F,RT RoHS
290	R524,	414916220210R	RES SMD (0603) 22KΩ F,RT RoHS
300	R515,R516,	414908220210R	RES SMD (0805) 22KΩ F,RT,RoHS
310	C507,C511,	419342254670R	C SMD(0805) Y5V 2.2uF/16V Z RoHS
320	C821,	419311040060R	C SMD(0603) X7R 0.1uF/50V K RoHS
330	C510,	419316830060R	C SMD (0603) X7R 0.068uF 50V,K RoHS
340	C523,C530,	419316810070R	C SMD(0805) X7R 680PF/50V K,RoHS
350	C529,	419304710560R	C SMD(0603) NPO 470PF/50V,J,RoHS
360	C504,	419311020060R	C SMD(0603) X7R 1000PF/50V K RoHS
370	C506,	419314720060R	C SMD(0603) X7R 4700PF/50V K RoHS
380	C501,C502,C513,C514,	419312220060R	C SMD(0603) X7R 2200PF/50V K RoHS
390	C505,	419311030060R	C SMD(0603) X7R 0.01uF/50V K RoHS
400	D506,	411023004021R	DIO SN4148-LF 75V/0.15A SMD 1206 (FEC)Ro
400		411020046090R	DIO 1N4148W 75V/0.15A(PEC)RoHS SOD-123
410	D501,D502,	411020026210R	DIO BAV99 350mW 70V SOT-23(PHI RoHS
410		411020026020R	DIO BAV99-LF 350mW 70V SOT-23 (FEC)RoHS
410		411020026390R	DIO BAV99,SOT-23(INFINEON)RoHS
410		411020026090R	DIO BAV99 350mW 75V SOT-23(PEC RoHS
420	D503,D504,	411020047210R	DIO BAV70 85V SOT23 (PHILIPS) RoHS
420		411020047020R	DIO BAV70-LF, 70V SOT-23(FEC) ROHS
430	D505,	411020068210R	DIO BAW56 85V SOT-23(PHILIPS)RoHS
430		411020068020R	DIO BAW56 70V SOT-23(FRONTIER)RoHS
430		411020068090R	DIO BAW56 75V SOT-23(PANJIT)RoHS
440	IC501,	412000455630R	IC OZ9938GN SOIC16(O2 MICRO)RoHS
450	C516,C512,	419313330060R	C SMD(0603) X7R 0.033uF/50V K ROHS
460		790621410600R	PCBA,PWR&INV./B,AI,LE1730-6E0
470	R509,	414916200010R	RES SMD (0603) 200Ω F,RT RoHS
480	R534,	414916100210R	RES SMD (0603) 10KΩ F,RT RoHS
500	C508,	419312230060R	C SMD(0603) X7R 0.022uF/50V K RoHS
510		506140005700R	LABEL,BARCODE,BLANK,33x7mm, ROHS,FOR PCB
520	ZD805,	411100991920R	ZENER 9.1V MMSZ5239A SOD123(PE C)RoHS
520		411131591952R	ZENER 9.1V 0.5W DDZ9V1C-F,SOD1 23(DIODES

520		411150391950R	ZENER 9.1V MTZS05-9.1-G SOD-123 (MITSUBI
ITEM	Location	P/N	Description
		790621410600R	PCBA,PWR&INV./B,AI,LE1730-6E0
10		790621450600R	PCBA,PWR&INV./B,AI/A, LE1730-6E0
30		790621460600R	PCBA,PWR&INV./B,AI/R, LE1730-6E0
ITEM	Location	P/N	Description
		790621450600R	PCBA,PWR&INV./B,AI/A, LE1730-6E0
10	R804,	415130680540R	RES CF 1/2W 68Ω J,AT RoHS REV:A
20	R828,	415340101540R	RES MOF 1W 100Ω J,AT MINI RoHS
30	D806,	411020052020R	DIO A02-LF 200V/1A R1(FEC)RoHS
30		411030003040R	DIO FR103 200V/1A DO-41(MOSPEC RoHS
40	D809,	411022003210R	DIO 1N4148 75V/0.2A AT (PHIL) RoHS
40		411022003020R	DIO 1N4148-LF 75V/0.15A AT (FEC)RoHS
40		411020048090R	DIO 1N4148-35 75V/0.15A,DO35(P EC)RoHS
50	D804,	411020053090R	DIO PS1010R 1000V/1A DO-41(PAN JIT)RoHS
50		411032006020R	DIO FR10-10-LF 1000V/1A AT(FRO NTIER)RoH
60	ZD802,	411020050090R	DIO P6KE150A,DO-15,AT(PANJIT)RoHS
60		411020050020R	DIO P6KE150A-LF AT(FRONTIER) RoHS
60		411020050010R	DIO P6KE150A,DO-15AT,(TSC)RoHS
70	B801,	432002200160R	BEAD CORE BF30TA-3.5x9x0.8 AT
80	R820,R821,	415030105540R	RES CF 1/2W 1MΩ J,AT MINI RoHS
90	R506,R508,R532,R533,	414030330540R	RES FSM 1/2W 33Ω J,AT MINI,RoHS
100	R501,R503,	414870305540R	RES MG HV 1/2Ws 3MΩ 3KV J,AT RoHS
110	J502,J507,J510,J516,J804,J805,J809,	430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 7.5mm
110		430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 7.5mm
120	J503,J505,J514,J801,J803,J808,	430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 10mm
120		430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 10mm
130	J508,J513,J515,J810,	430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 12.5mm
130		430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 12.5mm
140	J501,J512,J802,J511,	430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 15mm
140		430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 15mm

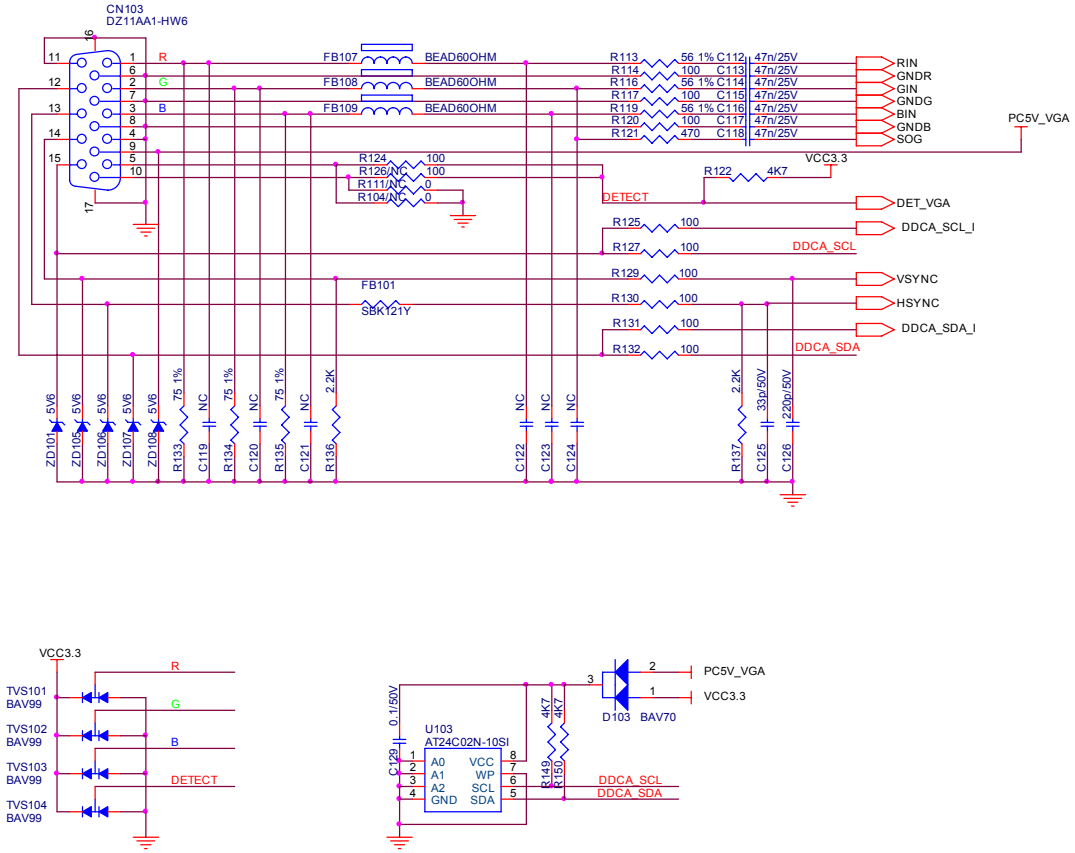
150	J506,J509,	430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 17.5mm
150		430405000000R	JMPR ROLL/KG D=0.6mm,AT,RoHS 17.5mm
160		700000000100R	ASSY,PCB&RIVENT,LE1730
170	R521,	415020330540R	RES CF 1/4W 33Ω J,AT MINI RoHS
180	R812,	414020689540R	RES FSM 1/4W 6.8Ω J AT MINI,RoHS
ITEM	Location	P/N	Description
		790621460600R	PCBA,PWR&INV./B,AI/R, LE1730-6E0
10	C813,	418147038530R	CAP CD NPO 47pF 1KV J,VT RoHS
20	C802,C811,	418210227030R	CAP CD X7R 1000pF 500V K VT RoHS
30	C817,C822,	419111040030R	CAP MTL X7R 0.1uF 50V K,VT, RoHS
40	C814,C815,C818,C819,	420264700230R	CAP SH 47uF 25V M,125℃,VT, 6.3x11,RoHS
50	Q802,	410072013210R	XSTR 2PC1815GR*I VT (PHILIPS) RoHS REV:
50		410072013370R	XSTR 2SC1815-GR (T2SPF.T) VT (TOSHIBA)Ro
50		410072013150R	XSTR UTC2SC1815L-GR NPN TO92 (UTC)RoHS
60	IC803,	412022002840R	IC TL431ACLPG TO-92 1%,VT(ON)RoHS
60		412022002240R	IC KA431AZ 1%,VT (FAIRCHILD) RoHS
60		412022002300R	IC AP431VL TO-92 1% VT (ATC) RoHS
60		412022002830R	IC AS431 TO-92 VT(A1SEMI)RoHS
70	C816,	416231041530R	CAP MEB 0.1uF 100V J,(RSB),VT RSBEC3100D
70		416141041531R	CAP MKT 0.1uF 100V J,VT(ARCO) RoHS,R82EC
80	C810,	420424710260R	CAP SD 470uF/25V M 105℃ ST 10x16,RoHS
90	C509,C522,	420421510330R	CAP SD 150uF 35V M,105℃ VT 8x12 RoHS
ITEM	Location	P/N	Description
		700000000100R	ASSY,PCB&RIVENT,LE1730
10		490621400100R	PCB,PWR&INV./B, LE1730-XE0
20	M3,M4,M5,M6,M7,M8,	512006000500R	RIVET,Φ3.0xΦ1.6x3.0mm
30	M1,M2,	512006000600R	RIVET,Φ4.1xΦ2.2x3.0mm

SCHEMATIC DIAGRAM

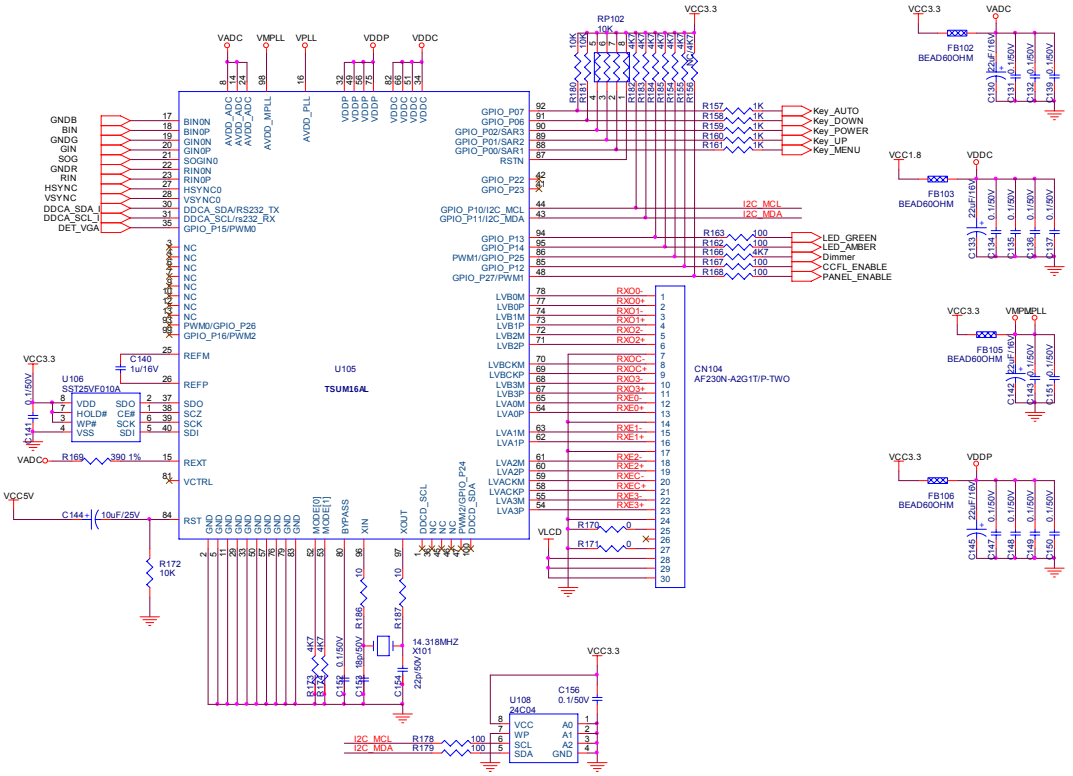
1. DC to DC



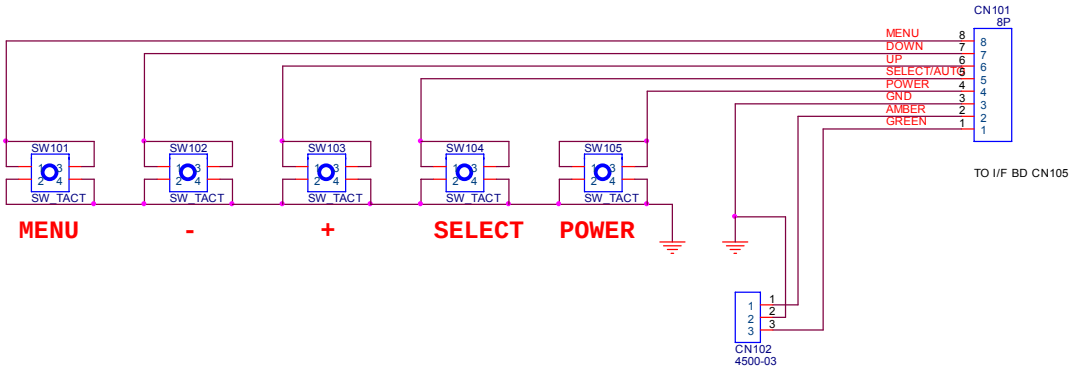
2. Input



3. Scaler_TSUM16AL

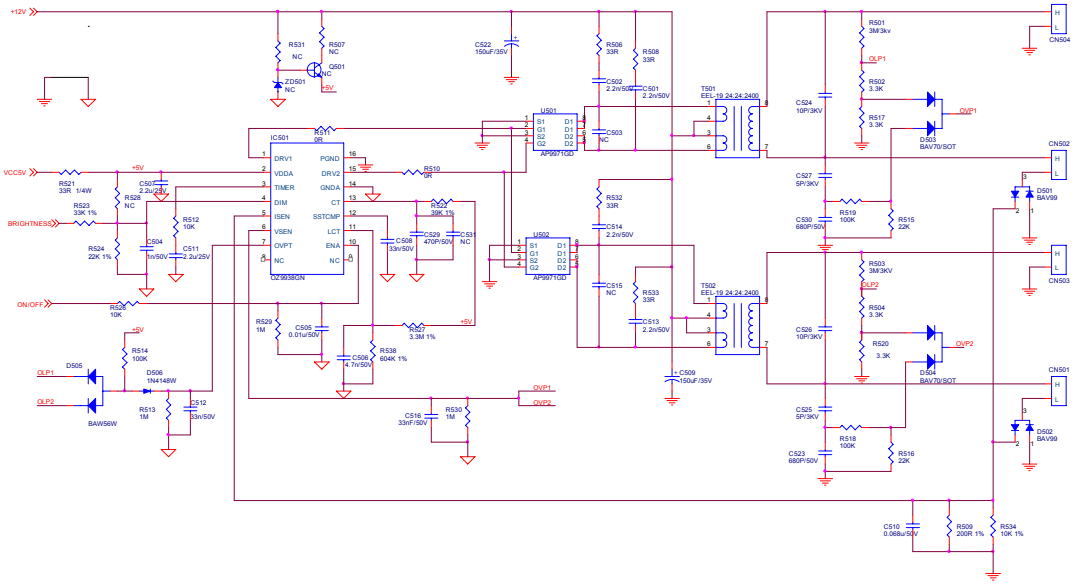


4. Key



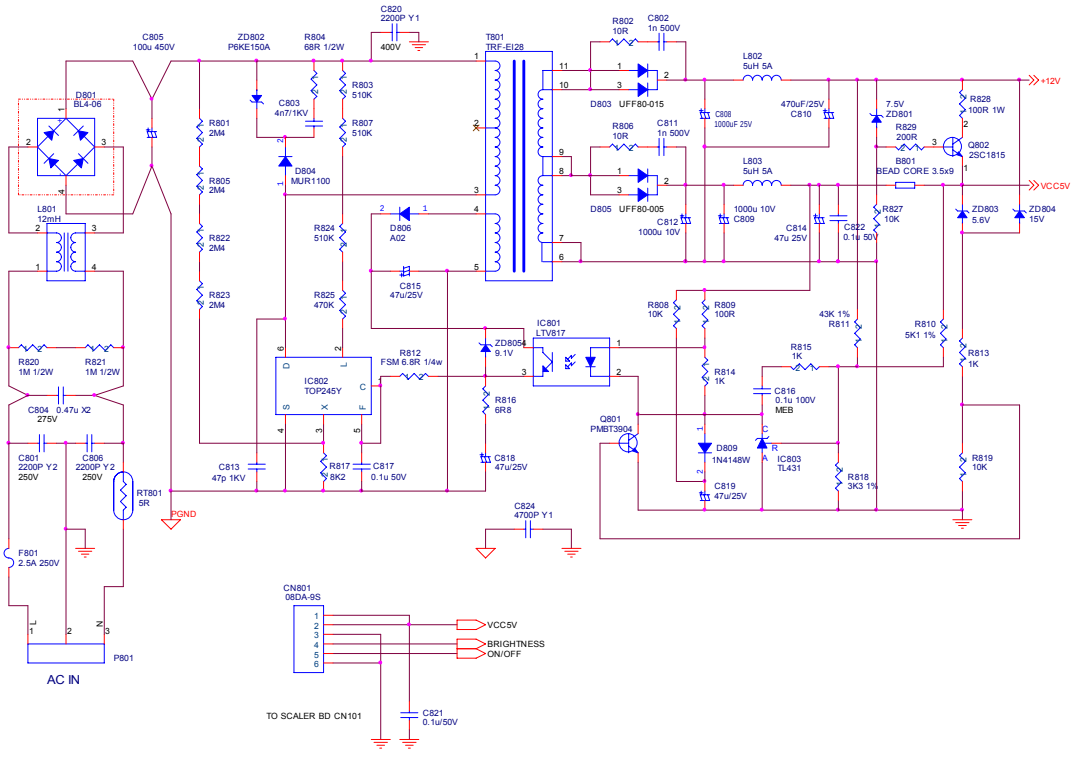
5. LED

6. Inverter



Item	INL	CPT	LPL
R509	200R	200R	220R

7. Power



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